# The Secondary Fan of a Plane Cubic

The computational results listed below prove some of the results in the paper

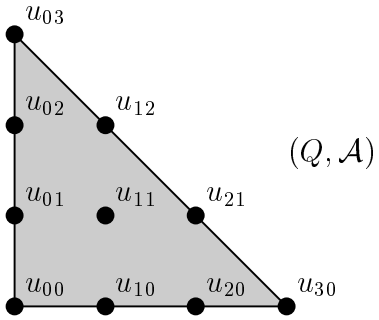
*Eric Katz, Hannah Markwig, Thomas Markwig: The j-invariant of a Plane Tropical Cubic. Preprint 2007.*

For an explantion of the terms used in the following, for some of the notation, like $c_T(i,j)$ or $\eta_T(i,j)$, and for a thorough explanation of the results we refer to this paper.

If we consider a curve given by the general polynomial

$$f = u_{30}x^3 + u_{21}x^2y + u_{12}xy^2 + u_{03}y^3 + u_{20}x^2 + u_{11}xy + u_{02}y^2 + u_{10}x + u_{01}y + u_{00};$$

then the secondary fan associated to $f$ is the by definition the secondary fan of the the following marked polytope $(Q, \mathcal{A})$:



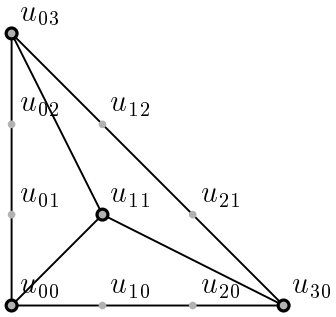

As coordinates on the 10-dimensional real space in which the secondary fan lives we use by abuse of notation

$$u_{11}, u_{30}, u_{20}, u_{10}, u_{00}, u_{21}, u_{01}, u_{12}, u_{02}, u_{03}$$

In what follows we give for each vertex in the secondary fan the corresponding marked subdivision and the inequalities describing the cone. Moreover, we compute the cycle length of a tropical curve dual to the subdivision in terms of the $u_{ij}$, and we determine the corresponding vertex in the Newton polytope of the regular $A$-determinant of $f$ to which the cone belongs by computing the coefficients $\eta_{ij}$. From these we can compute the generic valuation $j$-invariant of $f$ provided that the associated tropical curve has a cycle. In particular, we will see that in these cases the cycle length is just the negative of this generic valuation. Note that the regular $A$-determinant coincides with the discriminant of $f$, which at the same time is the denominator of the $j$-invariant of $f$.

# 1. Vertex: $(9, 6, 0, 0, 6, 0, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

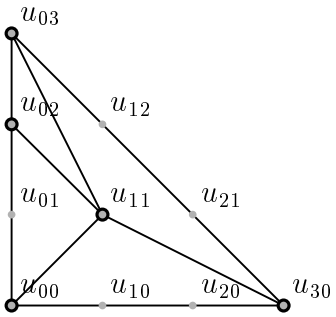
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
9 \cdot u_{11} &< 3 \cdot u_{30} + 3 \cdot u_{00} + 3 \cdot u_{03}
\end{aligned}$$

# 2. Vertex: $(9, 6, 0, 0, 5, 0, 0, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

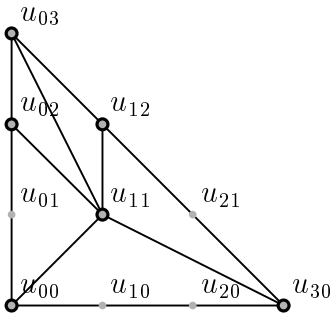
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02}
\end{aligned}$$

# 3. Vertex: $(9, 5, 0, 0, 5, 0, 0, 3, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

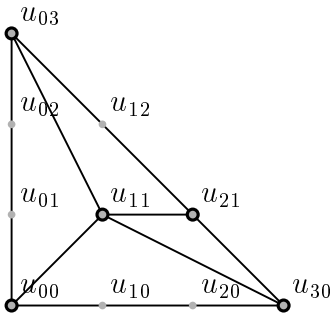
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 4. Vertex: $(9, 4, 0, 0, 6, 3, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

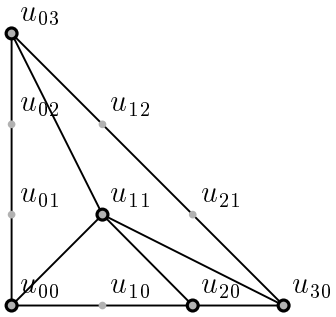
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 5. Vertex: $(9, 4, 3, 0, 5, 0, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

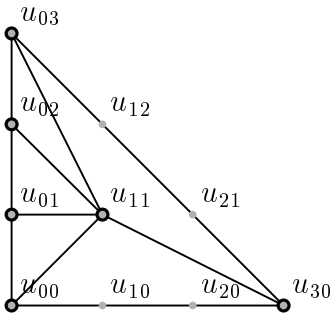
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 6. Vertex: $(9, 6, 0, 0, 4, 0, 2, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

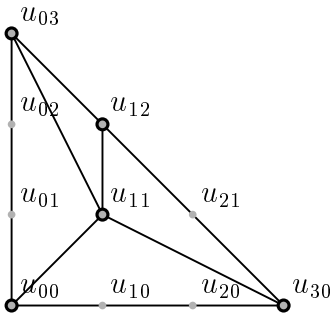
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01}
\end{aligned}$$

# 7. Vertex: $(9, 5, 0, 0, 6, 0, 0, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

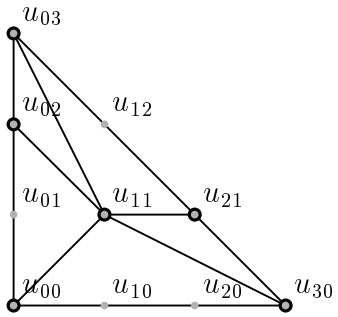
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 8. Vertex: $(9, 4, 0, 0, 5, 3, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

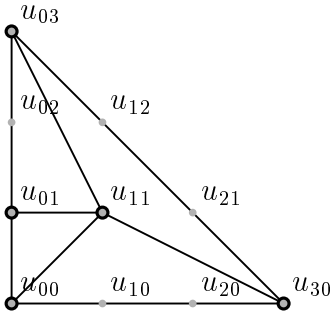
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 9. Vertex: $(9, 6, 0, 0, 4, 0, 3, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

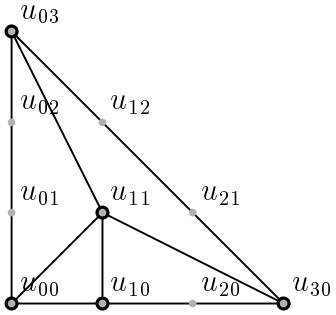
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01}
\end{aligned}$$

# 10. Vertex: $(9, 5, 0, 3, 4, 0, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

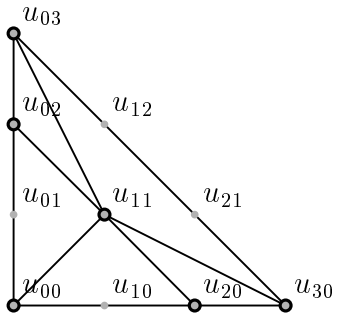
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03}
\end{aligned}$$

# 11. Vertex: $(9, 4, 3, 0, 4, 0, 0, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

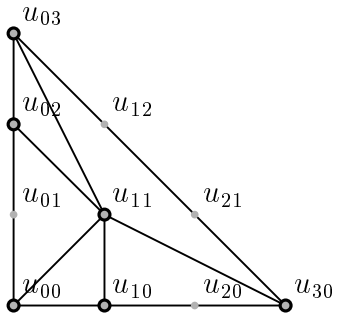
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 12. Vertex: $(9, 5, 0, 3, 3, 0, 0, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

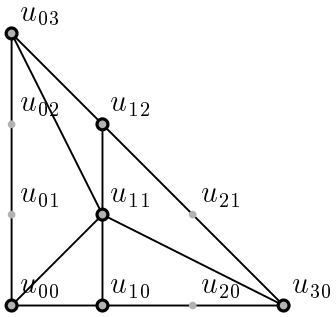
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02}
\end{aligned}$$

# 13. Vertex: $(9, 4, 0, 3, 4, 0, 0, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

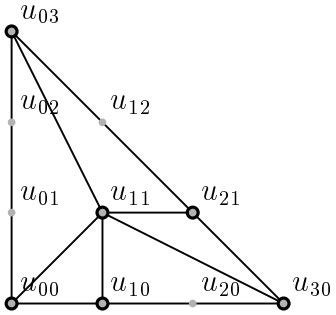
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 14. Vertex: $(9, 3, 0, 3, 4, 3, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

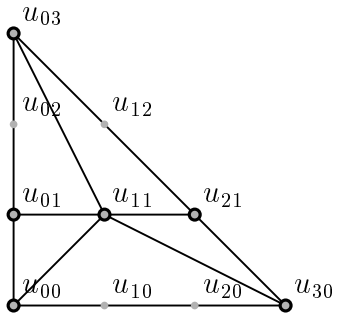
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03}
\end{aligned}$$

# 15. Vertex: $(9, 4, 0, 0, 4, 3, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

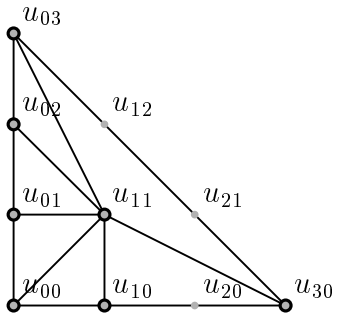
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 16. Vertex: $(9, 5, 0, 3, 2, 0, 2, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

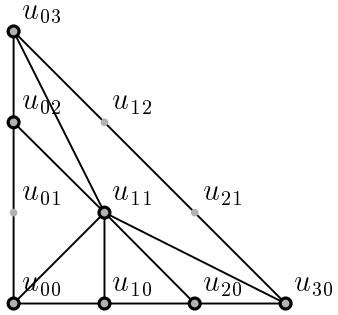
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02}
\end{aligned}$$

# 17. Vertex: $(9, 4, 2, 2, 3, 0, 0, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

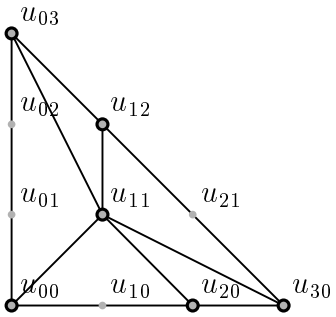
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 18. Vertex: $(9, 3, 3, 0, 5, 0, 0, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

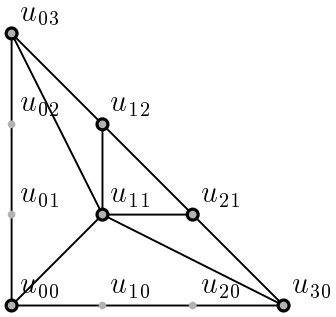
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 19. Vertex: $(9, 4, 0, 0, 6, 2, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

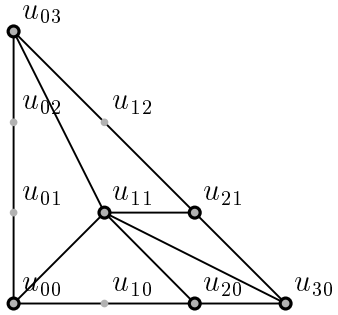
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 20. Vertex: $(9, 2, 3, 0, 5, 3, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

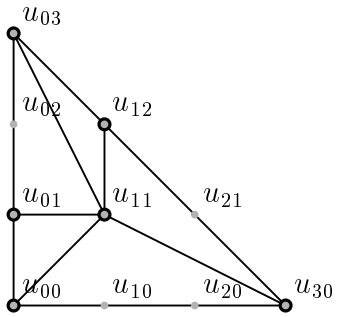
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 21. Vertex: $(9, 5, 0, 0, 4, 0, 3, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

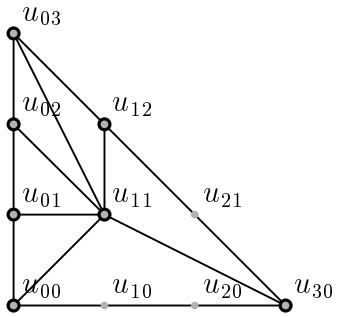
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01}
\end{aligned}$$

# 22. Vertex: $(9, 5, 0, 0, 4, 0, 2, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

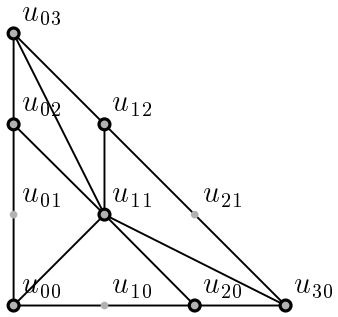
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01}
\end{aligned}$$

# 23. Vertex: $(9, 3, 3, 0, 4, 0, 0, 3, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

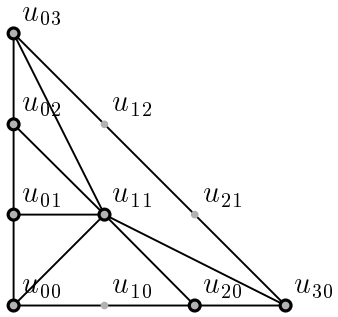
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 24. Vertex: $(9, 4, 3, 0, 3, 0, 2, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

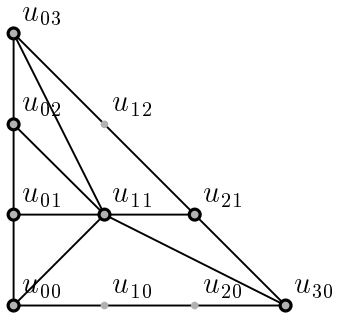
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 25. Vertex: $(9, 4, 0, 0, 4, 3, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

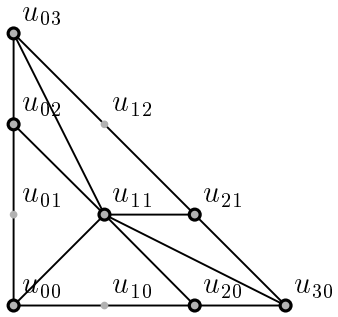
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 26. Vertex: $(9, 2, 3, 0, 4, 3, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

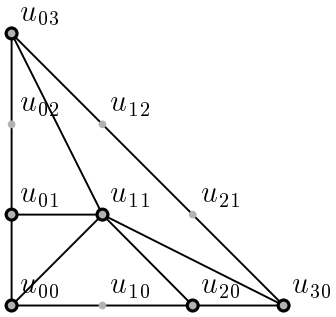
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 27. Vertex: $(9, 4, 3, 0, 3, 0, 3, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

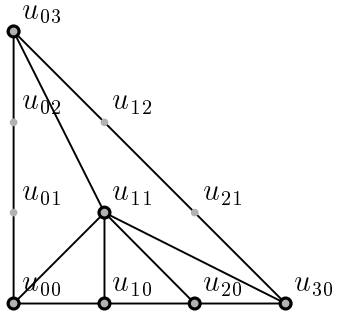
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 28. Vertex: $(9, 4, 2, 2, 4, 0, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

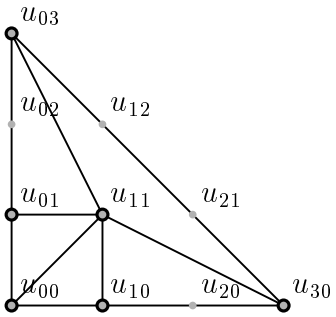
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 29. Vertex: $(9, 5, 0, 3, 2, 0, 3, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

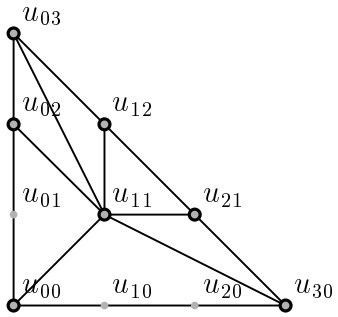
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 30. Vertex: $(9, 4, 0, 0, 5, 2, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

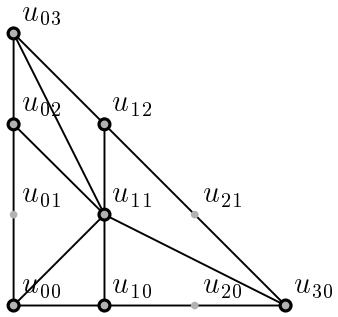
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 31. Vertex: $(9, 4, 0, 3, 3, 0, 0, 3, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

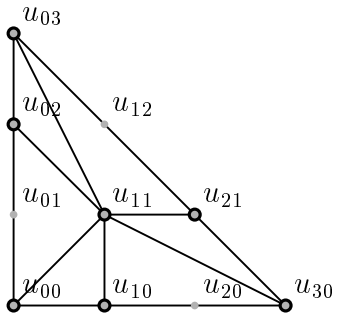
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 32. Vertex: $(9, 3, 0, 3, 3, 3, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

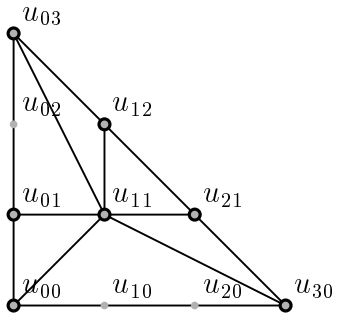
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 33. Vertex: $(9, 4, 0, 0, 4, 2, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

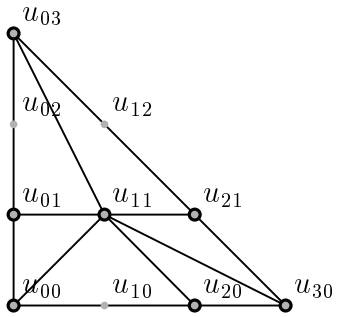
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 34. Vertex: $(9, 2, 3, 0, 3, 3, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

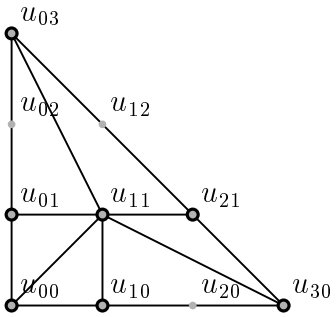
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 35. Vertex: $(9, 3, 0, 3, 2, 3, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

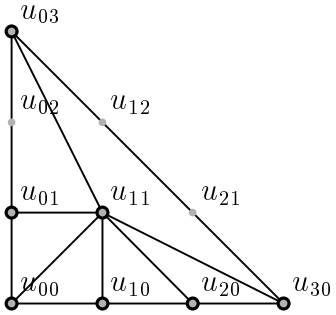
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 36. Vertex: $(9, 4, 2, 2, 2, 0, 3, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

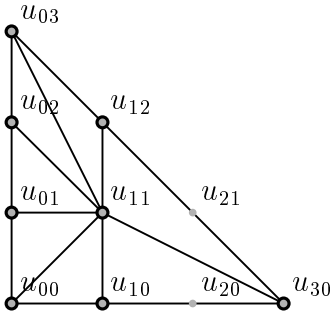
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 37. Vertex: $(9, 4, 0, 3, 2, 0, 2, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

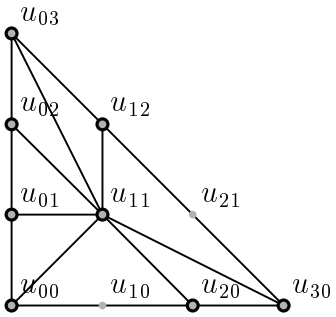
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 38. Vertex: $(9, 3, 3, 0, 3, 0, 2, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

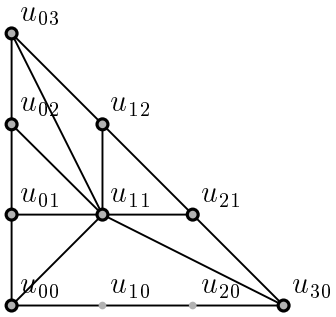
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 39. Vertex: $(9, 4, 0, 0, 4, 2, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

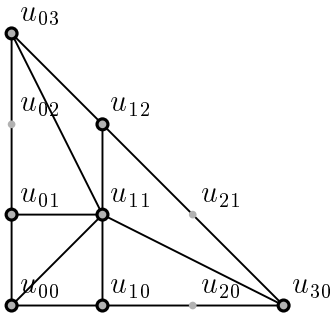
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 40. Vertex: $(9, 4, 0, 3, 2, 0, 3, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

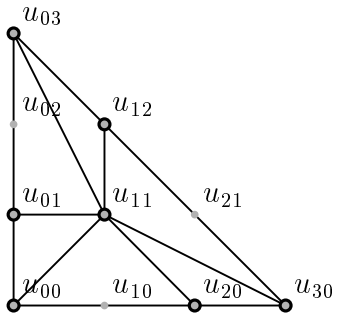
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 41. Vertex: $(9, 3, 3, 0, 3, 0, 3, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

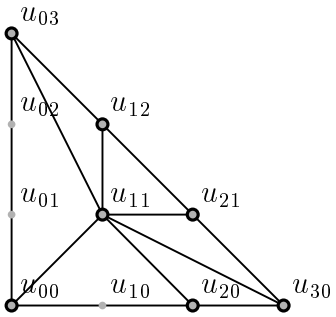
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 42. Vertex: $(9, 2, 3, 0, 5, 2, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

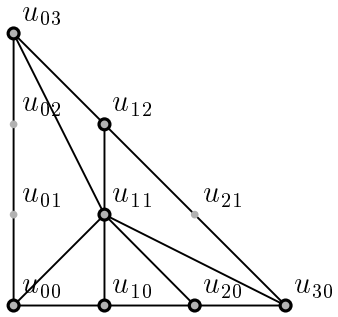
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 43. Vertex: $(9, 3, 2, 2, 4, 0, 0, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

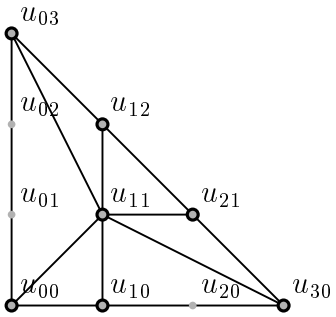
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 44. Vertex: $(9, 3, 0, 3, 4, 2, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

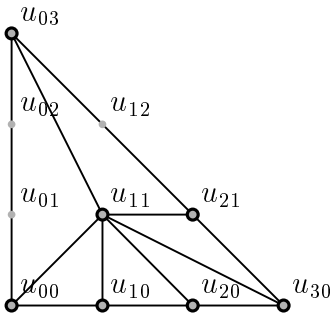
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 45. Vertex: $(9, 2, 2, 2, 4, 3, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

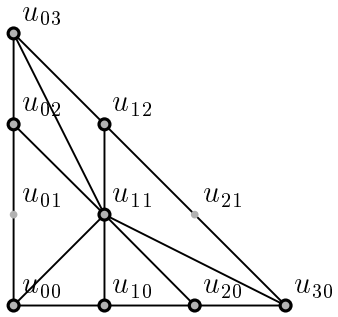
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03}
\end{aligned}$$

# 46. Vertex: $(9, 3, 2, 2, 3, 0, 0, 3, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

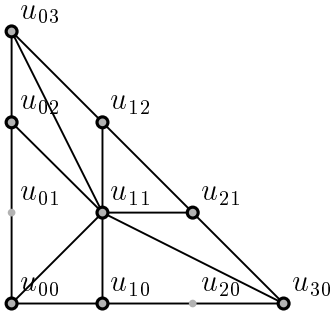
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 47. Vertex: $(9, 3, 0, 3, 3, 2, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

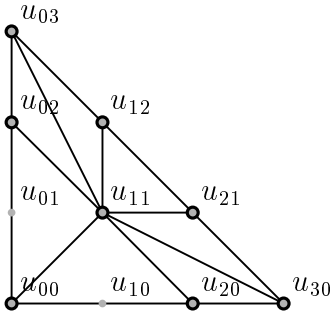
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 48. Vertex: $(9, 2, 3, 0, 4, 2, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

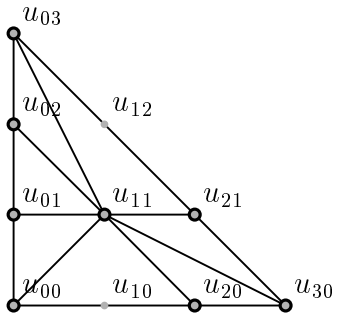
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 49. Vertex: $(9, 2, 3, 0, 3, 3, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

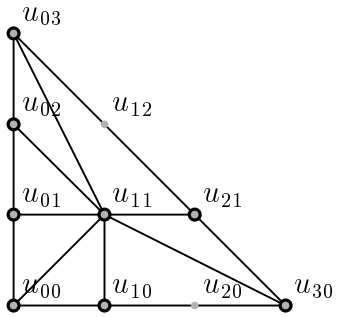
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 50. Vertex: $(9, 3, 0, 3, 2, 3, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

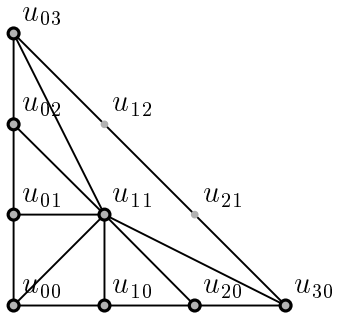
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 51. Vertex: $(9, 4, 2, 2, 2, 0, 2, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

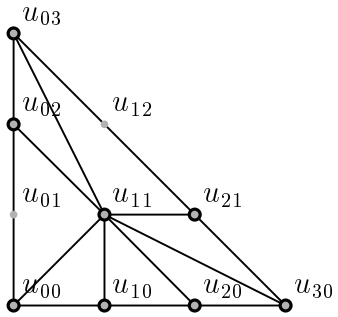
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 52. Vertex: $(9, 2, 2, 2, 3, 3, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

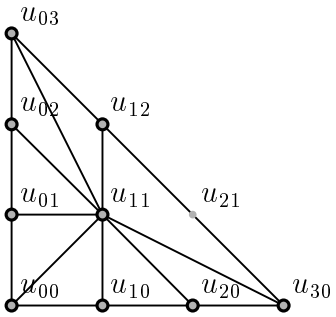
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 53. Vertex: $(9, 3, 2, 2, 2, 0, 2, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

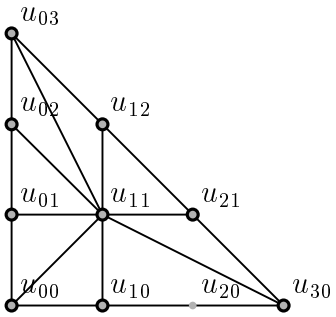
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 54. Vertex: $(9, 3, 0, 3, 2, 2, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

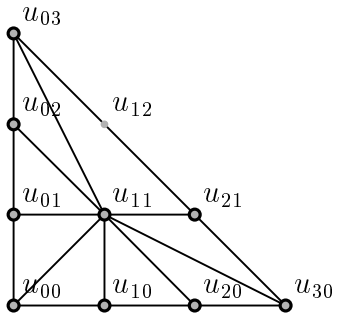
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 55. Vertex: $(9, 2, 2, 2, 2, 3, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

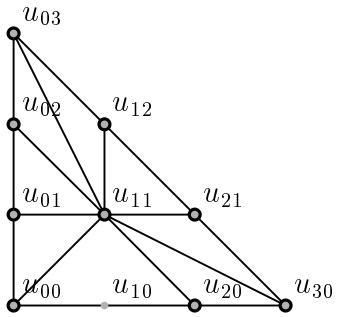
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 56. Vertex: $(9, 2, 3, 0, 3, 2, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

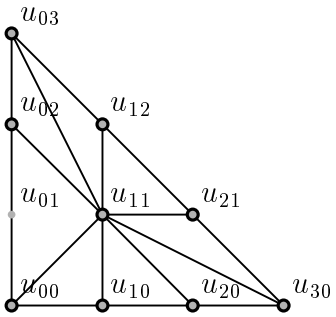
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 57. Vertex: $(9, 2, 2, 2, 3, 2, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

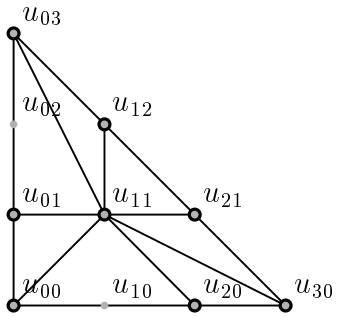
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 58. Vertex: $(9, 2, 3, 0, 3, 2, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

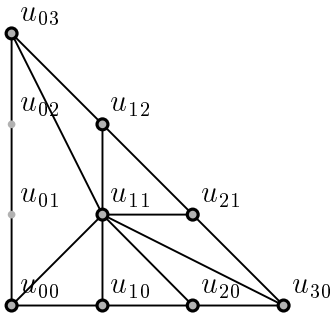
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 59. Vertex: $(9, 2, 2, 2, 4, 2, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

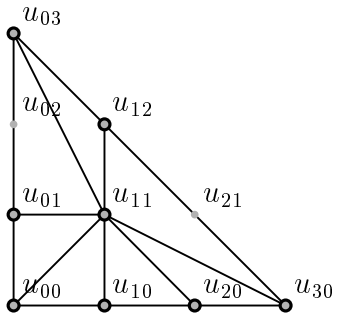
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 60. Vertex: $(9, 3, 2, 2, 2, 0, 3, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

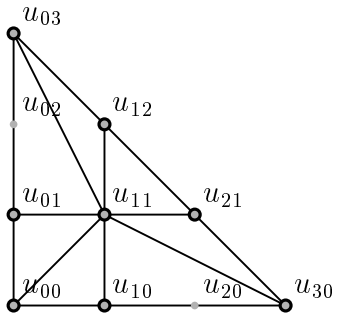
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 61. Vertex: $(9, 3, 0, 3, 2, 2, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

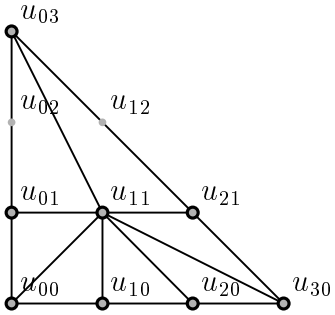
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 62. Vertex: $(9, 2, 2, 2, 2, 3, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

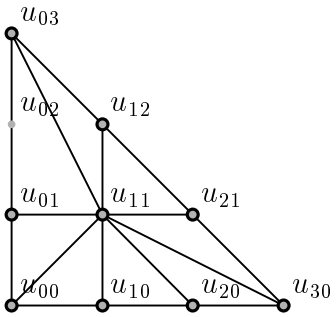
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 63. Vertex: $(9, 2, 2, 2, 2, 2, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

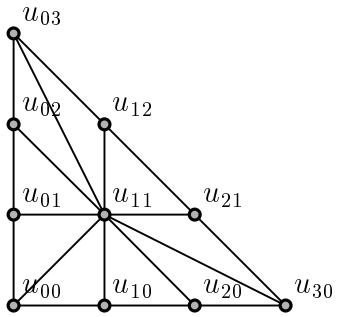
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 64. Vertex: $(9, 2, 2, 2, 2, 2, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

The generic valuation of the j-invariant is: $3 \cdot u_{11} - u_{30} - u_{00} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -3 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

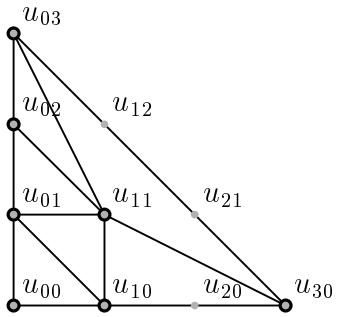
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 9 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 65. Vertex: $(8, 5, 0, 4, 1, 0, 3, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

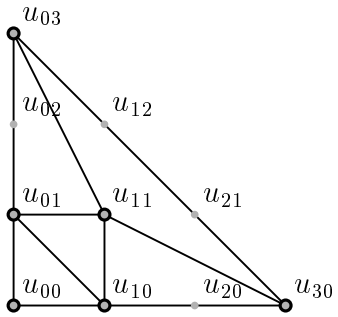
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02}
\end{aligned}$$

# 66. Vertex: $(8, 5, 0, 4, 1, 0, 4, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

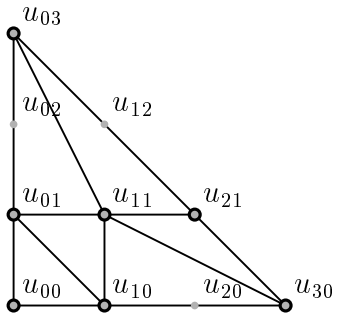
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03}
\end{aligned}$$

# 67. Vertex: $(8, 3, 0, 4, 1, 3, 4, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

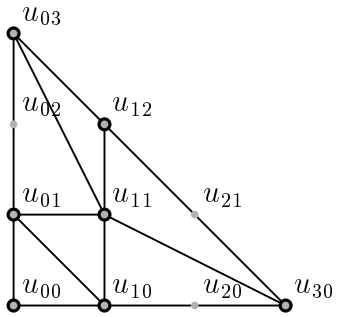
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 68. Vertex: $(8, 4, 0, 4, 1, 0, 4, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

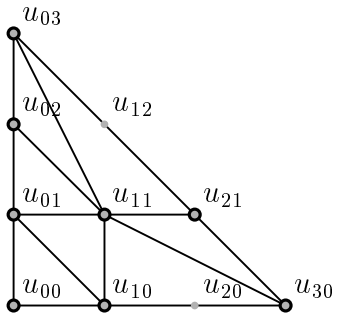
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 69. Vertex: $(8, 3, 0, 4, 1, 3, 3, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

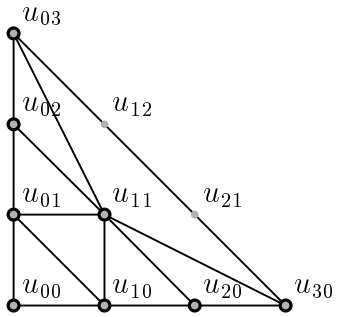
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 70. Vertex: $(8, 4, 2, 3, 1, 0, 3, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

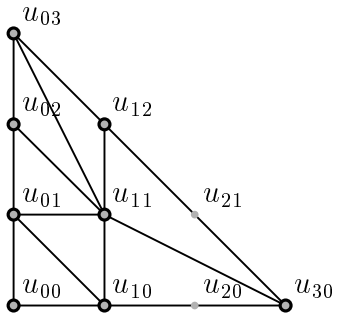
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 71. Vertex: $(8, 4, 0, 4, 1, 0, 3, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

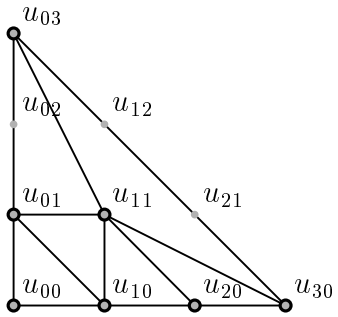
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01}
\end{aligned}$$

# 72. Vertex: $(8, 4, 2, 3, 1, 0, 4, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

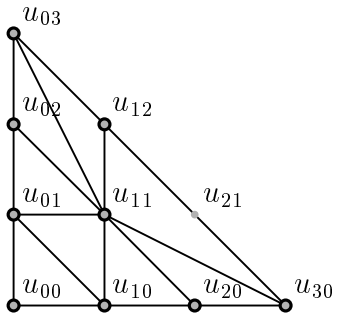
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 73. Vertex: $(8, 3, 2, 3, 1, 0, 3, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

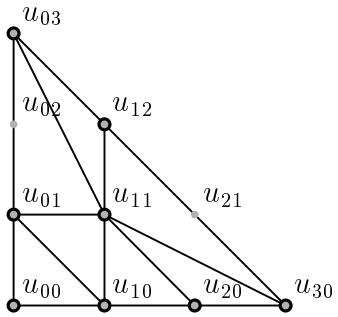
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 74. Vertex: $(8, 3, 2, 3, 1, 0, 4, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

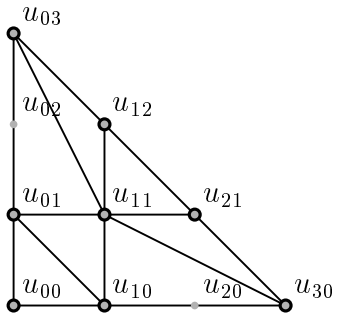
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 75. Vertex: $(8, 3, 0, 4, 1, 2, 4, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

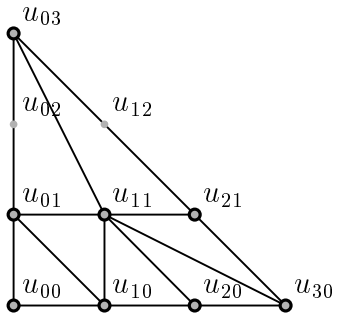
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 76. Vertex: $(8, 2, 2, 3, 1, 3, 4, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

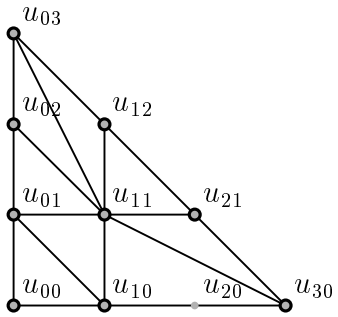
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03}
\end{aligned}$$

# 77. Vertex: $(8, 3, 0, 4, 1, 2, 3, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

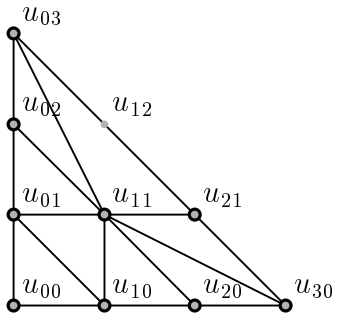
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 78. Vertex: $(8, 2, 2, 3, 1, 3, 3, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

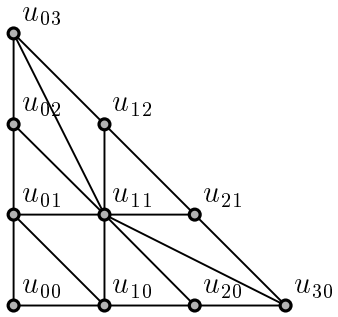
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 79. Vertex: $(8, 2, 2, 3, 1, 2, 3, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

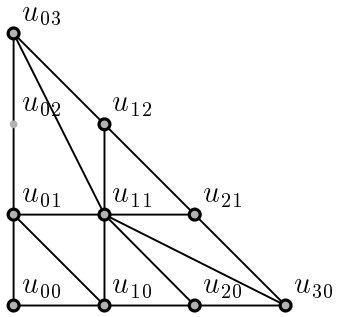
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 80. Vertex: $(8, 2, 2, 3, 1, 2, 4, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -4 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

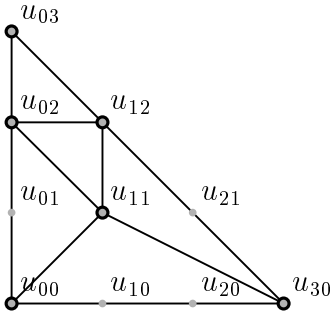
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 8 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 81. Vertex: $(8, 5, 0, 0, 5, 0, 0, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

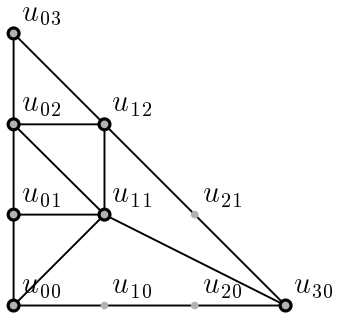
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 82. Vertex: $(8, 5, 0, 0, 4, 0, 2, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

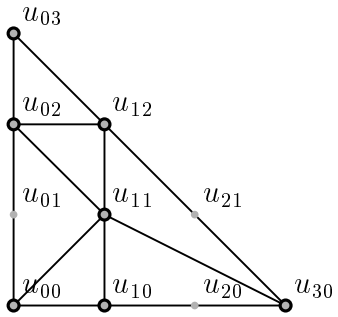
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01}
\end{aligned}$$

# 83. Vertex: $(8, 4, 0, 3, 3, 0, 0, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

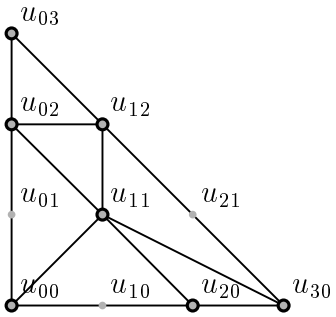
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 84. Vertex: $(8, 3, 3, 0, 4, 0, 0, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

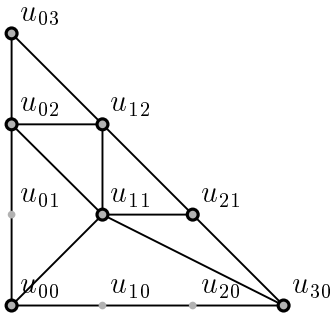
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 85. Vertex: $(8, 4, 0, 0, 5, 2, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

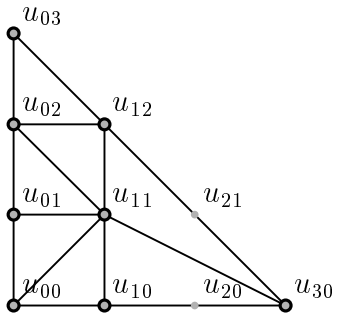
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 86. Vertex: $(8, 4, 0, 3, 2, 0, 2, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

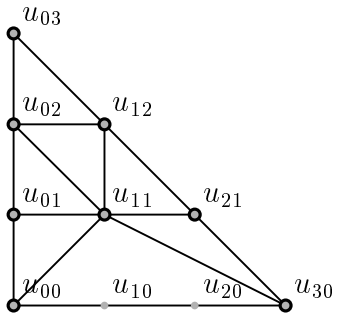
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02}
\end{aligned}$$

# 87. Vertex: $(8, 4, 0, 0, 4, 2, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

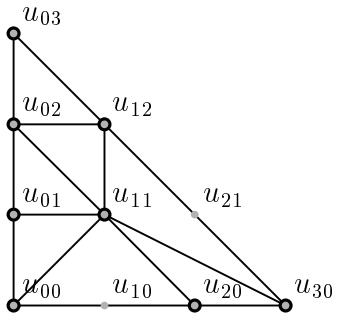
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 88. Vertex: $(8, 3, 3, 0, 3, 0, 2, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

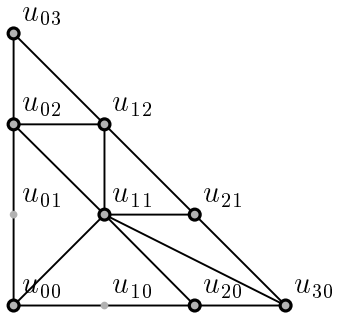
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 89. Vertex: $(8, 2, 3, 0, 4, 2, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

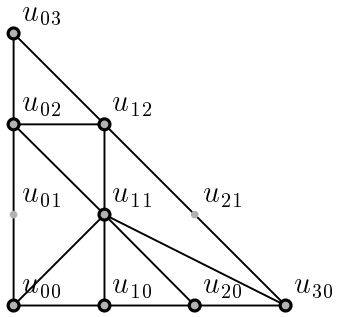
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 90. Vertex: $(8, 3, 2, 2, 3, 0, 0, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

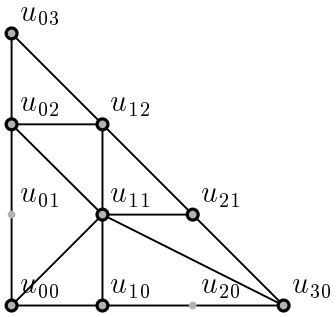
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 91. Vertex: $(8, 3, 0, 3, 3, 2, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

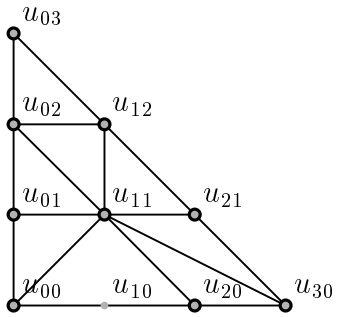
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 92. Vertex: $(8, 2, 3, 0, 3, 2, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

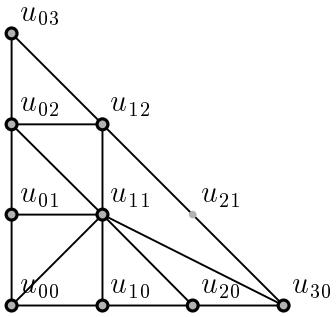
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 93. Vertex: $(8, 3, 2, 2, 2, 0, 2, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

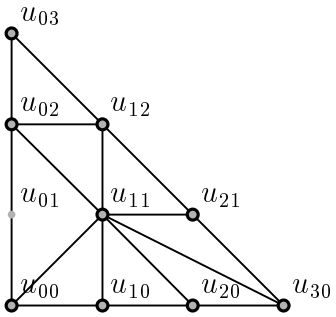
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 94. Vertex: $(8, 2, 2, 2, 3, 2, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

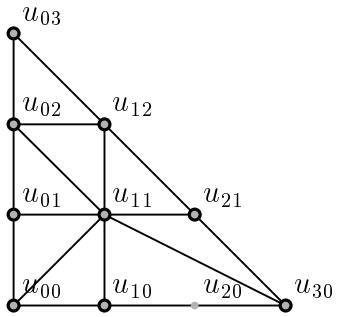
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 95. Vertex: $(8, 3, 0, 3, 2, 2, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

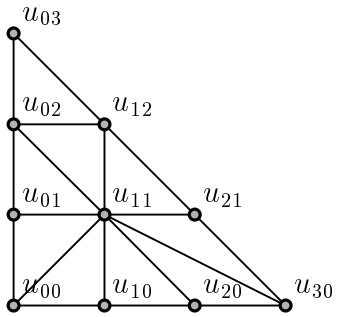
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 96. Vertex: $(8, 2, 2, 2, 2, 2, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{30} - u_{00} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -4 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

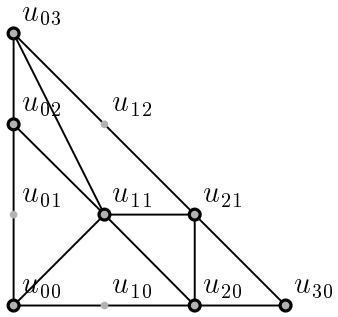
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 8 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 97. Vertex: $(8, 1, 4, 0, 4, 4, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

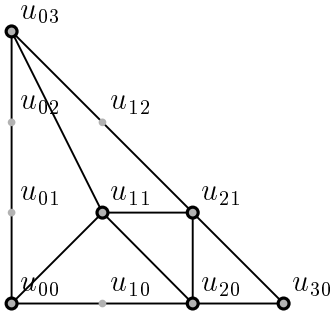
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 98. Vertex: $(8, 1, 4, 0, 5, 4, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

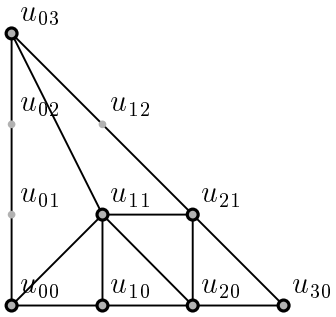
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 99. Vertex: $(8, 1, 3, 2, 4, 4, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

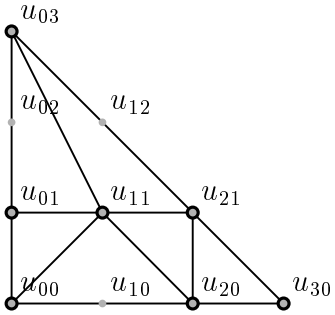
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03}
\end{aligned}$$

# 100. Vertex: $(8, 1, 4, 0, 3, 4, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

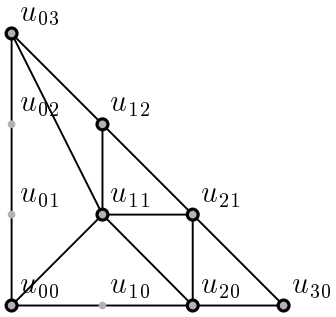
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 101. Vertex: $(8, 1, 4, 0, 5, 3, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

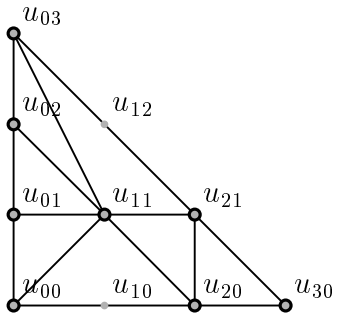
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 102. Vertex: $(8, 1, 4, 0, 3, 4, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

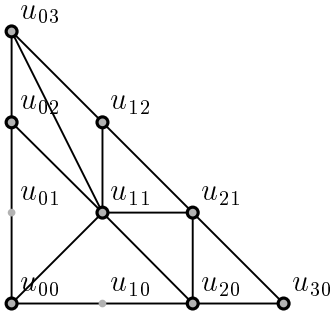
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 103. Vertex: $(8, 1, 4, 0, 4, 3, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

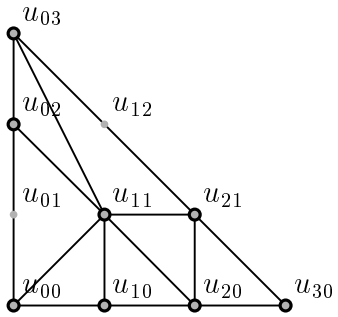
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 104. Vertex: $(8, 1, 3, 2, 3, 4, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

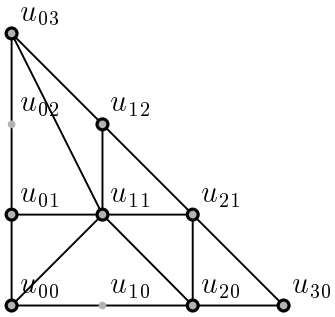
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 105. Vertex: $(8, 1, 4, 0, 3, 3, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

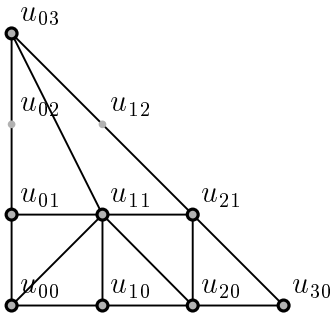
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 106. Vertex: $(8, 1, 3, 2, 2, 4, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

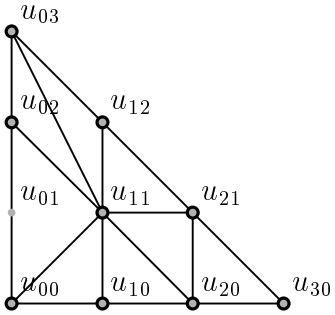
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03}
\end{aligned}$$

# 107. Vertex: $(8, 1, 3, 2, 3, 3, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

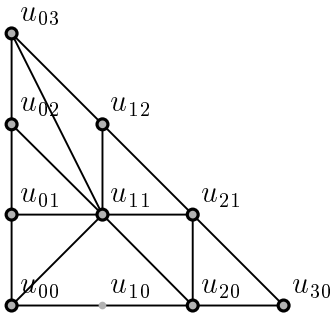
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 108. Vertex: $(8, 1, 4, 0, 3, 3, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

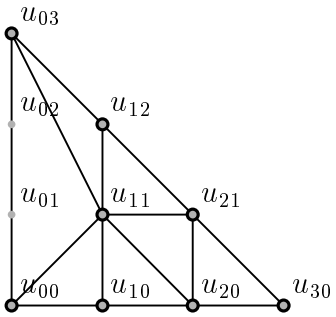
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 109. Vertex: $(8, 1, 3, 2, 4, 3, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

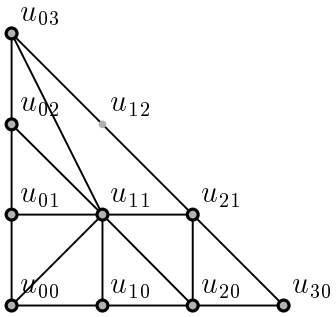
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 110. Vertex: $(8, 1, 3, 2, 2, 4, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

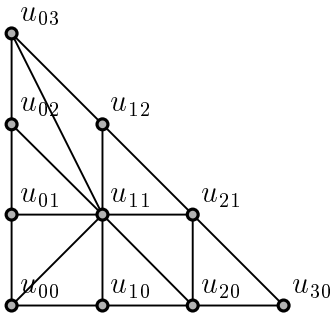
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 111. Vertex: $(8, 1, 3, 2, 2, 3, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

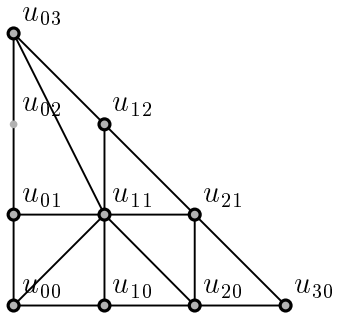
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 112. Vertex: $(8, 1, 3, 2, 2, 3, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -4 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

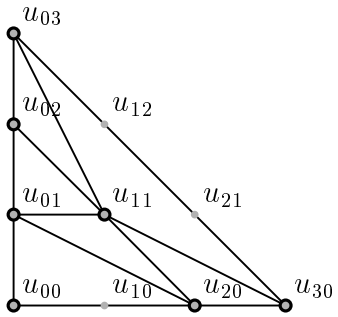
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 8 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 113. Vertex: $(7, 4, 4, 0, 2, 0, 4, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

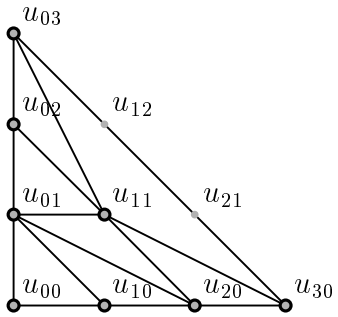
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 114. Vertex: $(7, 4, 3, 2, 1, 0, 4, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

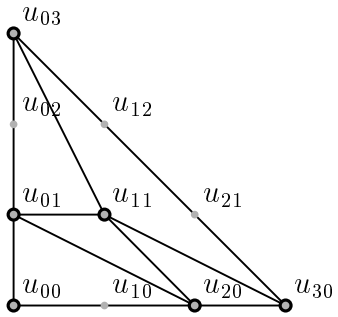
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 115. Vertex: $(7, 4, 4, 0, 2, 0, 5, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

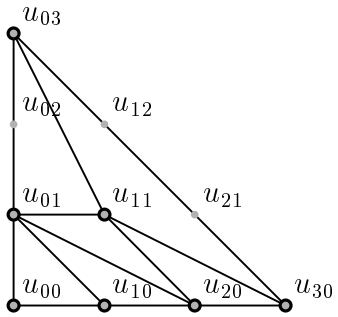
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 116. Vertex: $(7, 4, 3, 2, 1, 0, 5, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

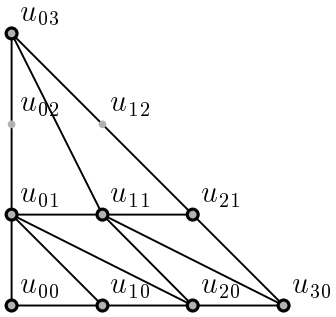
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 117. Vertex: $(7, 2, 3, 2, 1, 3, 5, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

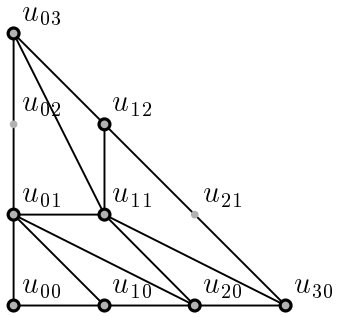
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 118. Vertex: $(7, 3, 3, 2, 1, 0, 5, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

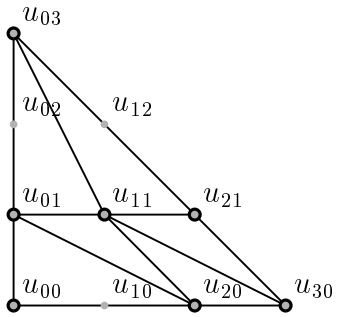
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 119. Vertex: $(7, 2, 4, 0, 2, 3, 5, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

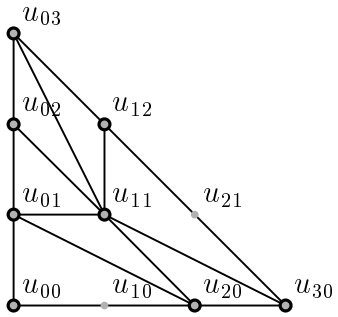
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 120. Vertex: $(7, 3, 4, 0, 2, 0, 4, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

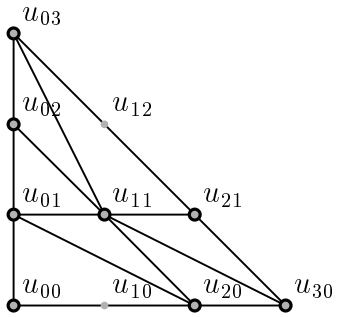
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 121. Vertex: $(7, 2, 4, 0, 2, 3, 4, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

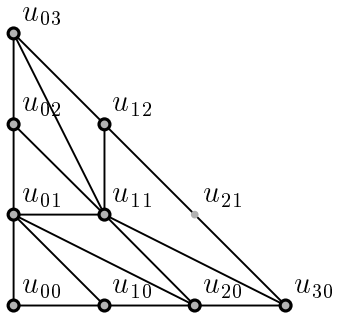
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 122. Vertex: $(7, 3, 3, 2, 1, 0, 4, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

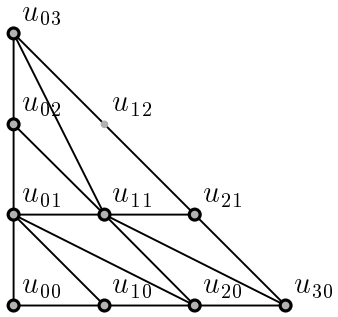
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 123. Vertex: $(7, 2, 3, 2, 1, 3, 4, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

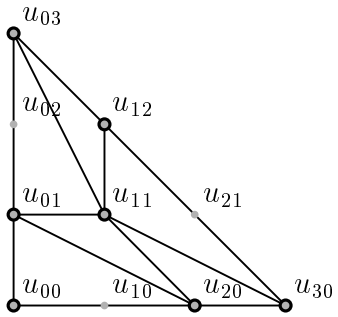
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 124. Vertex: $(7, 3, 4, 0, 2, 0, 5, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

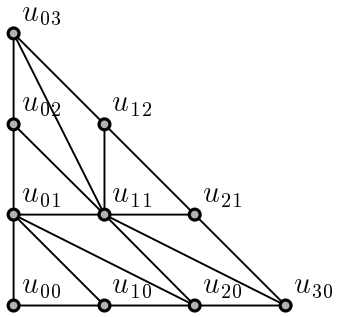
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 125. Vertex: $(7, 2, 3, 2, 1, 2, 4, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

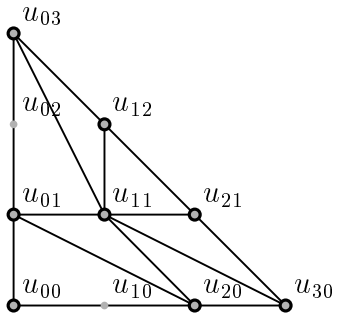
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 126. Vertex: $(7, 2, 4, 0, 2, 2, 5, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

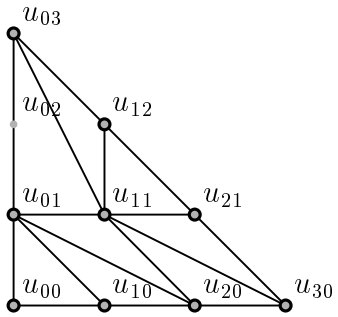
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 127. Vertex: $(7, 2, 3, 2, 1, 2, 5, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

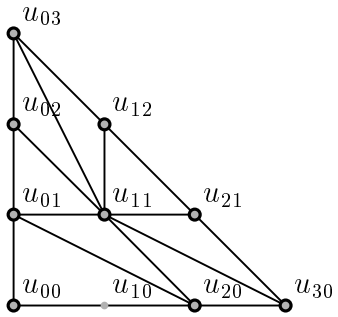
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 128. Vertex: $(7, 2, 4, 0, 2, 2, 4, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

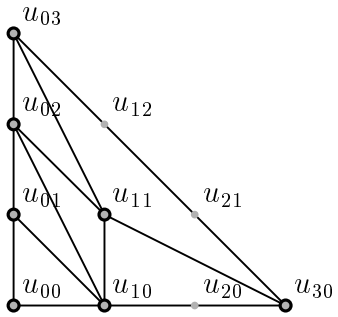
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 129. Vertex: $(7, 5, 0, 5, 1, 0, 2, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

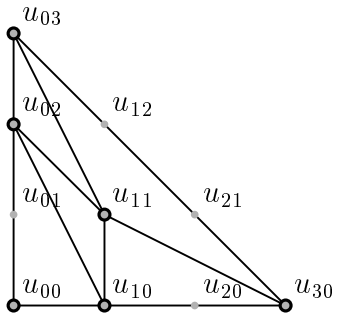
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02}
\end{aligned}$$

# 130. Vertex: $(7, 5, 0, 5, 2, 0, 0, 0, 4, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

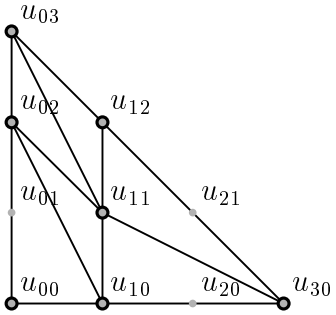
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02}
\end{aligned}$$

# 131. Vertex: $(7, 4, 0, 5, 2, 0, 0, 3, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

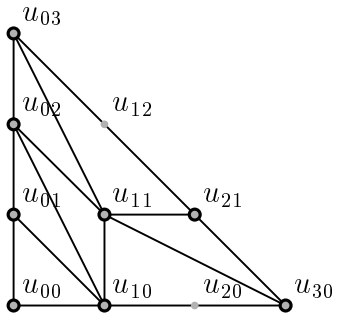
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 132. Vertex: $(7, 3, 0, 5, 1, 3, 2, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

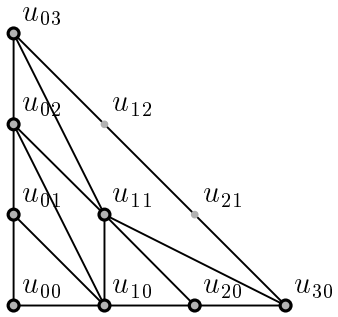
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 133. Vertex: $(7, 4, 2, 4, 1, 0, 2, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

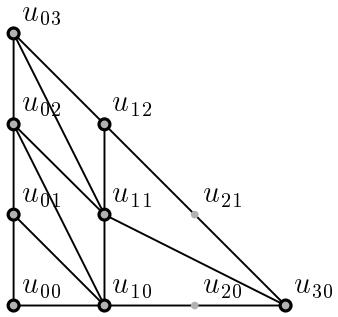
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 134. Vertex: $(7, 4, 0, 5, 1, 0, 2, 3, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

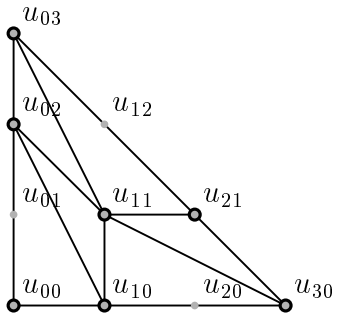
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 135. Vertex: $(7, 3, 0, 5, 2, 3, 0, 0, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

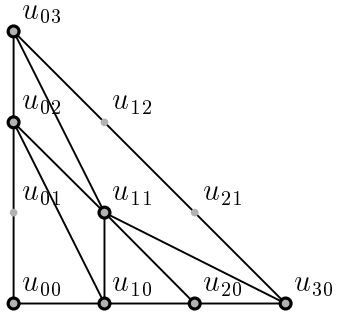
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 136. Vertex: $(7, 4, 2, 4, 2, 0, 0, 0, 4, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

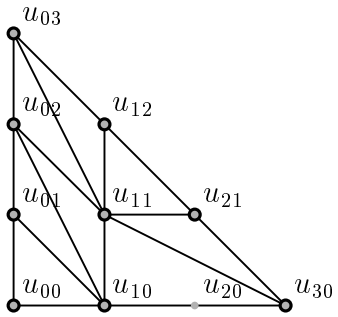
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 137. Vertex: $(7, 3, 0, 5, 1, 2, 2, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

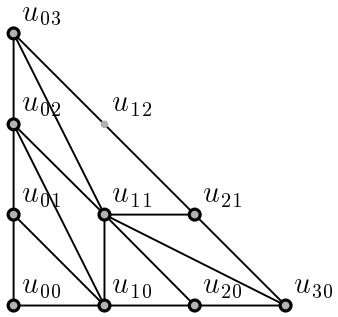
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 138. Vertex: $(7, 2, 2, 4, 1, 3, 2, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

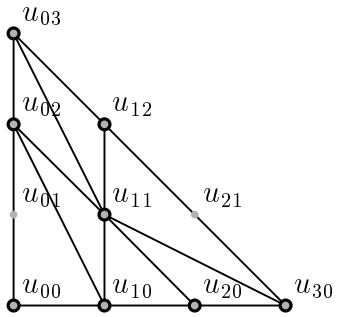
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 139. Vertex: $(7, 3, 2, 4, 2, 0, 0, 3, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

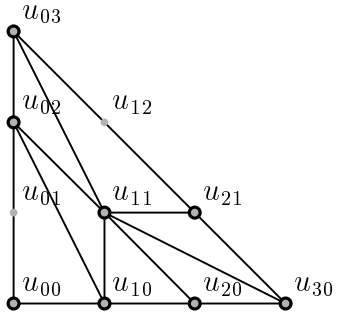
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 140. Vertex: $(7, 2, 2, 4, 2, 3, 0, 0, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

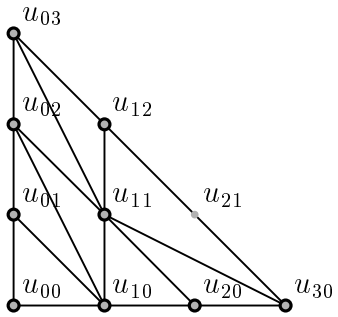
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 141. Vertex: $(7, 3, 2, 4, 1, 0, 2, 3, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

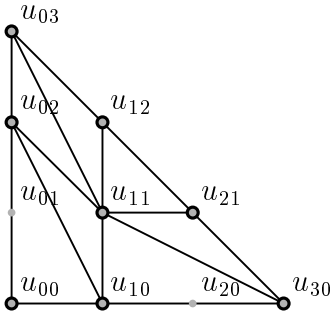
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 142. Vertex: $(7, 3, 0, 5, 2, 2, 0, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

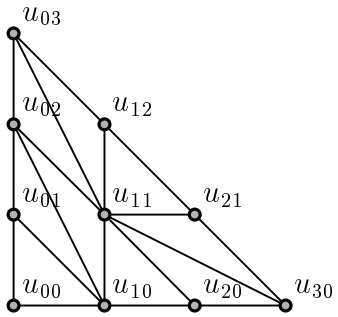
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 143. Vertex: $(7, 2, 2, 4, 1, 2, 2, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

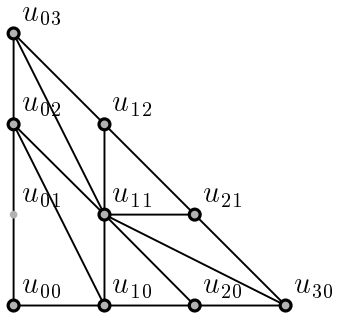
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 144. Vertex: $(7, 2, 2, 4, 2, 2, 0, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

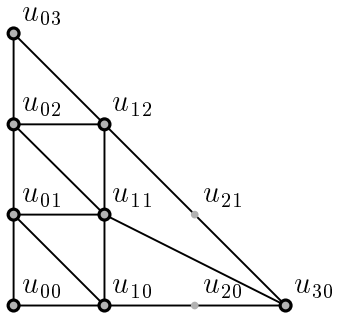
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 145. Vertex: $(7, 4, 0, 4, 1, 0, 3, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

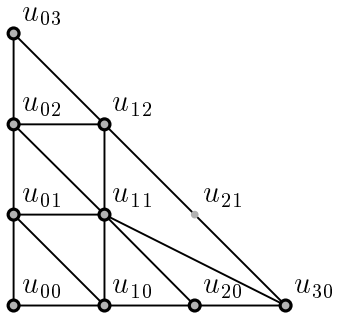
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01}
\end{aligned}$$

# 146. Vertex: $(7, 3, 2, 3, 1, 0, 3, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

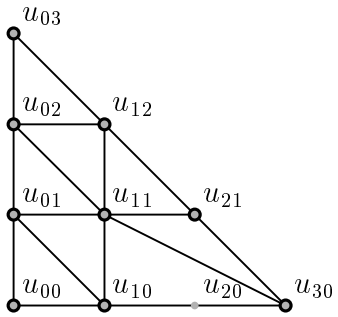
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 147. Vertex: $(7, 3, 0, 4, 1, 2, 3, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

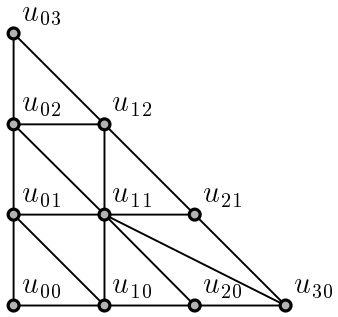
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 148. Vertex: $(7, 2, 2, 3, 1, 2, 3, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{10} - u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

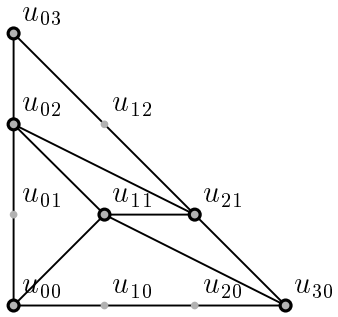
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 149. Vertex: $(7, 4, 0, 0, 5, 4, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

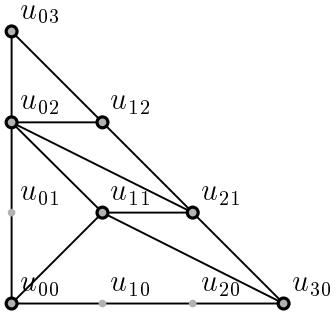
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 150. Vertex: $(7, 4, 0, 0, 5, 3, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

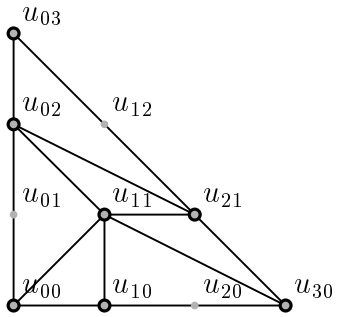
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 151. Vertex: $(7, 3, 0, 3, 3, 4, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

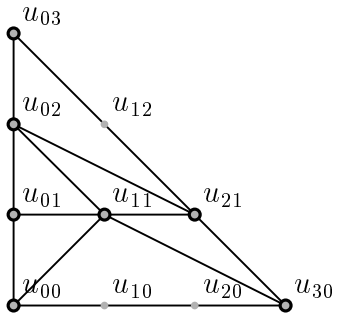
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 152. Vertex: $(7, 4, 0, 0, 4, 4, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

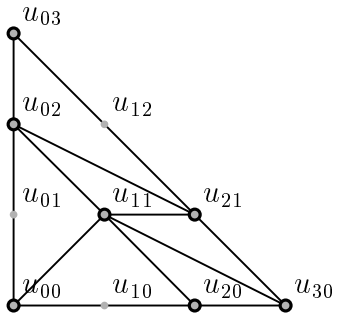
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 153. Vertex: $(7, 2, 3, 0, 4, 4, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

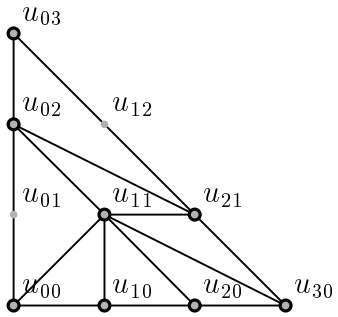
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 154. Vertex: $(7, 2, 2, 2, 3, 4, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

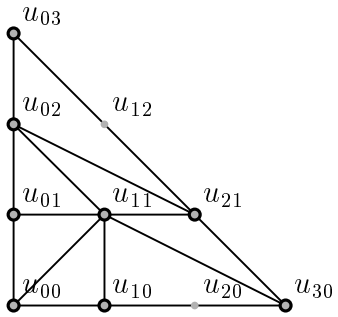
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 155. Vertex: $(7, 3, 0, 3, 2, 4, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

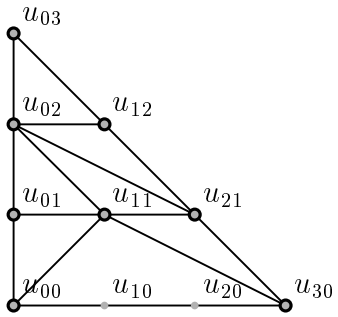
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 156. Vertex: $(7, 4, 0, 0, 4, 3, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

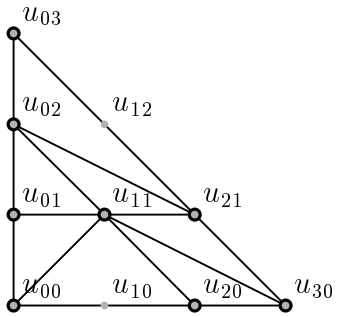
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 157. Vertex: $(7, 2, 3, 0, 3, 4, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

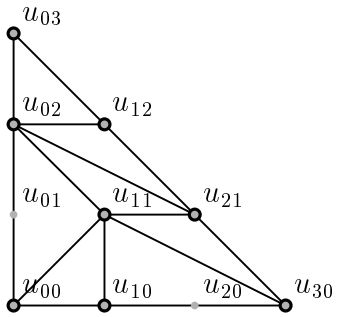
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 158. Vertex: $(7, 3, 0, 3, 3, 3, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

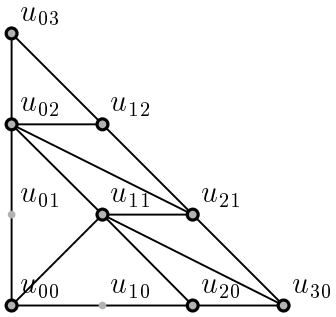
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 159. Vertex: $(7, 2, 3, 0, 4, 3, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

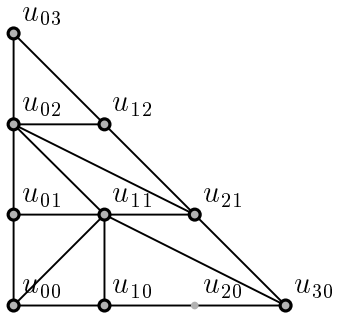
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 160. Vertex: $(7, 3, 0, 3, 2, 3, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

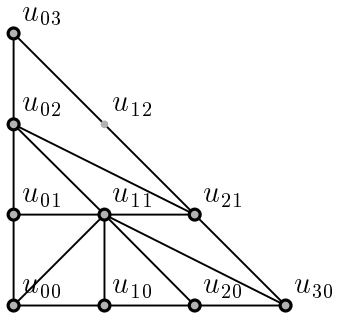
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 161. Vertex: $(7, 2, 2, 2, 2, 4, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

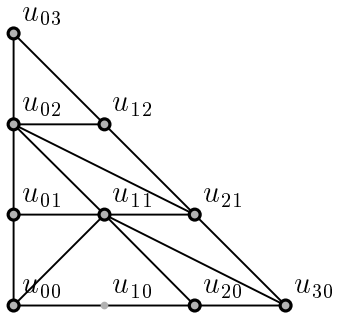
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 162. Vertex: $(7, 2, 3, 0, 3, 3, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

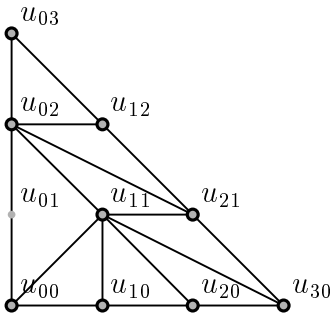
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 163. Vertex: $(7, 2, 2, 2, 3, 3, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

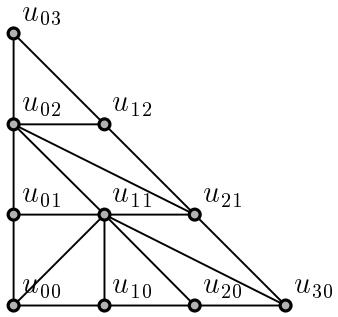
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 164. Vertex: $(7, 2, 2, 2, 2, 3, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

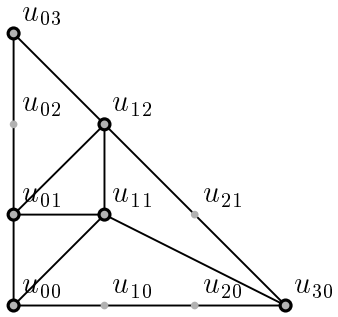
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 165. Vertex: $(7, 5, 0, 0, 4, 0, 4, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

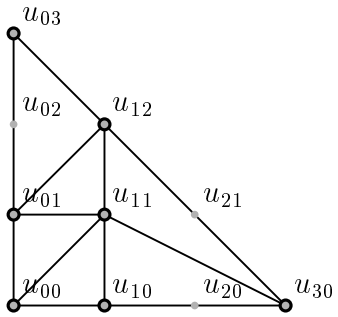
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01}
\end{aligned}$$

# 166. Vertex: $(7, 4, 0, 3, 2, 0, 4, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

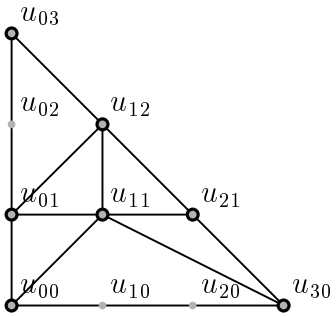
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12}
\end{aligned}$$

# 167. Vertex: $(7, 4, 0, 0, 4, 2, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

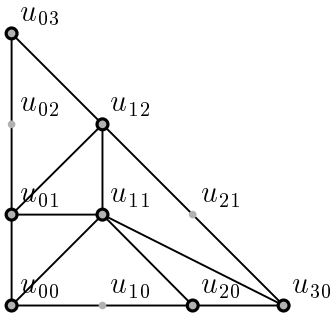
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 168. Vertex: $(7, 3, 3, 0, 3, 0, 4, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

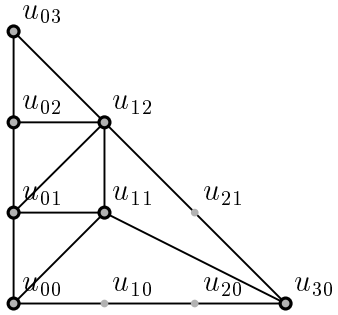
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 169. Vertex: $(7, 5, 0, 0, 4, 0, 3, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

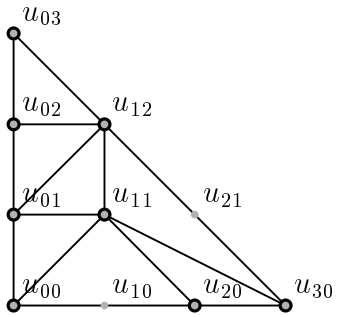
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01}
\end{aligned}$$

# 170. Vertex: $(7, 3, 3, 0, 3, 0, 3, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

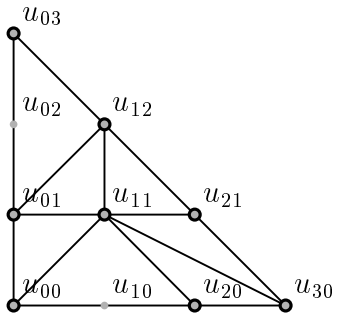
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 171. Vertex: $(7, 2, 3, 0, 3, 2, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

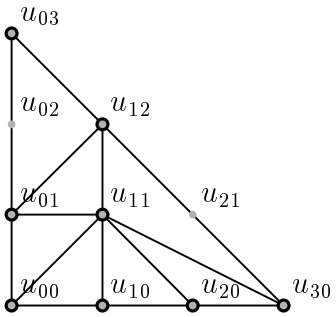
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 172. Vertex: $(7, 3, 2, 2, 2, 0, 4, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

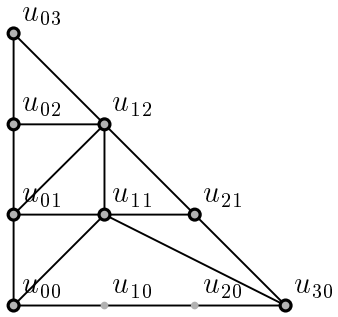
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 173. Vertex: $(7, 4, 0, 0, 4, 2, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

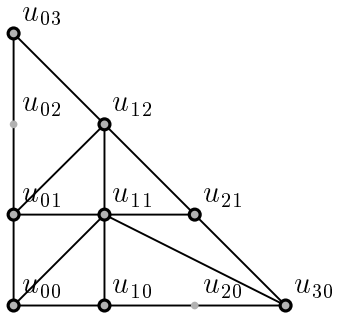
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 174. Vertex: $(7, 3, 0, 3, 2, 2, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

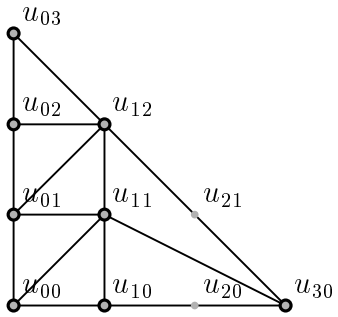
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 175. Vertex: $(7, 4, 0, 3, 2, 0, 3, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

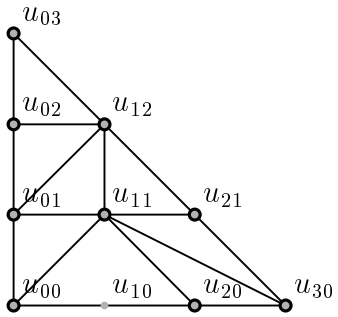
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12}
\end{aligned}$$

# 176. Vertex: $(7, 2, 3, 0, 3, 2, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

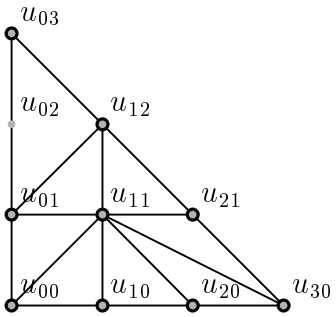
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 177. Vertex: $(7, 2, 2, 2, 2, 2, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

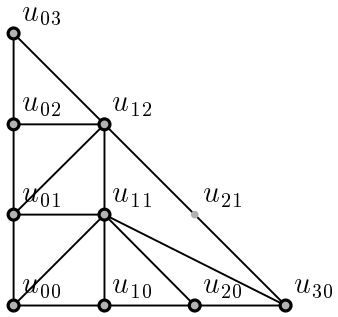
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 178. Vertex: $(7, 3, 2, 2, 2, 0, 3, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

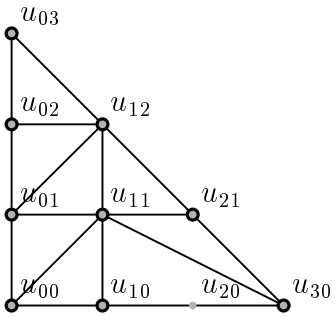
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 179. Vertex: $(7, 3, 0, 3, 2, 2, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

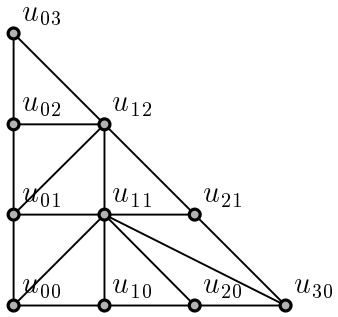
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 180. Vertex: $(7, 2, 2, 2, 2, 2, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{30} - u_{00} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -5 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

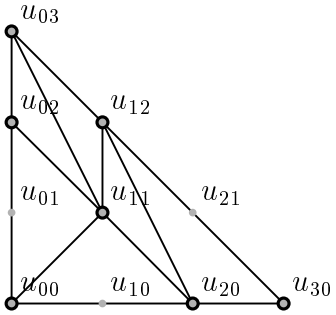
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 7 | 0 | |
| 0 | 1 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 181. Vertex: $(7, 2, 5, 0, 4, 0, 0, 4, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

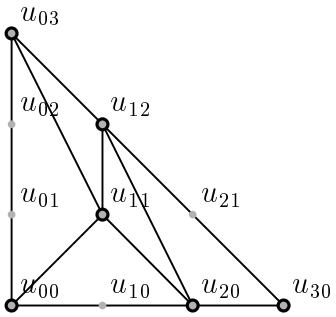
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 182. Vertex: $(7, 2, 5, 0, 5, 0, 0, 4, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

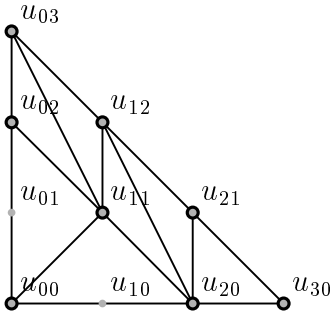
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 183. Vertex: $(7, 1, 5, 0, 4, 2, 0, 3, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

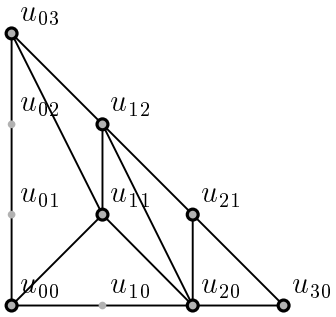
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 184. Vertex: $(7, 1, 5, 0, 5, 2, 0, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

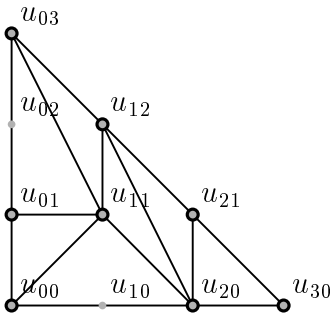
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 185. Vertex: $(7, 1, 5, 0, 3, 2, 3, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

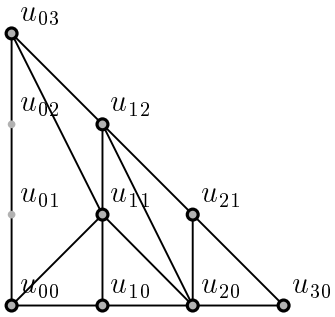
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 186. Vertex: $(7, 1, 4, 2, 4, 2, 0, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

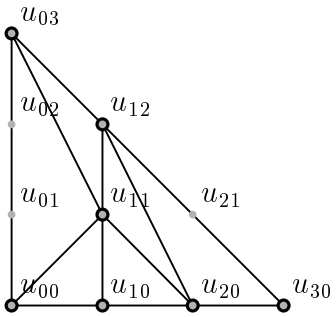
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 187. Vertex: $(7, 2, 4, 2, 4, 0, 0, 4, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

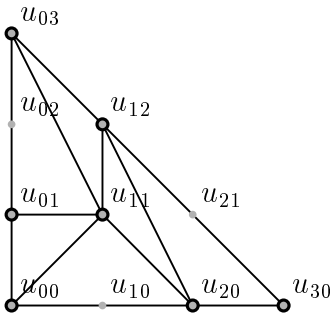
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 188. Vertex: $(7, 2, 5, 0, 3, 0, 3, 4, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

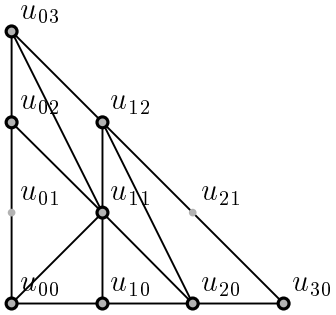
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 189. Vertex: $(7, 2, 4, 2, 3, 0, 0, 4, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

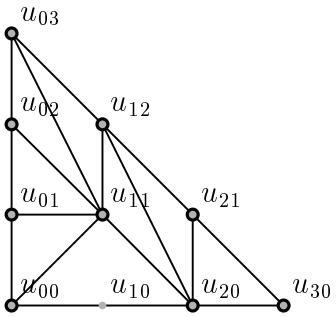
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 190. Vertex: $(7, 1, 5, 0, 3, 2, 2, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

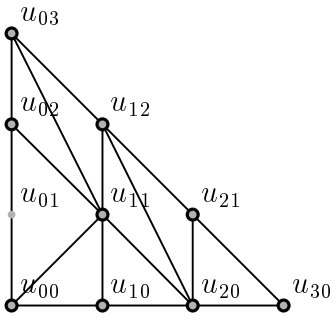
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 191. Vertex: $(7, 1, 4, 2, 3, 2, 0, 3, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

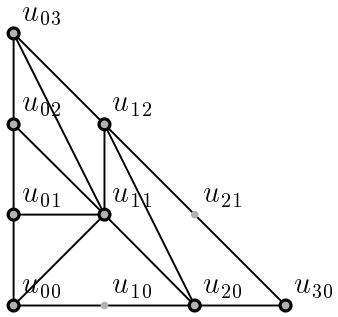
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 192. Vertex: $(7, 2, 5, 0, 3, 0, 2, 4, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

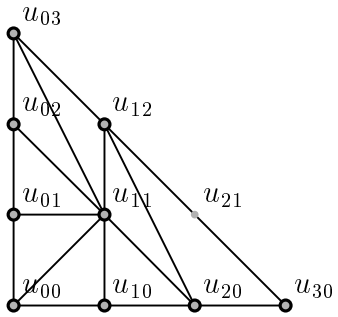
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 193. Vertex: $(7, 2, 4, 2, 2, 0, 2, 4, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

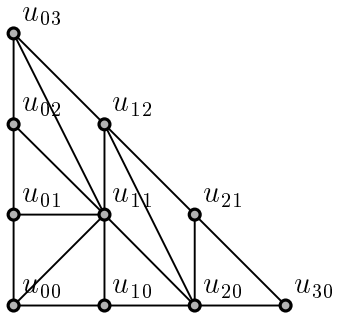
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 194. Vertex: $(7, 1, 4, 2, 2, 2, 2, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

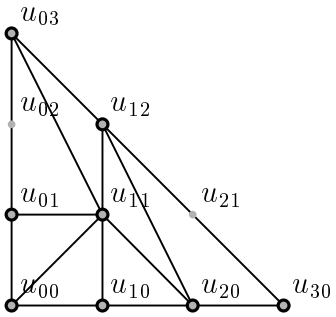
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 195. Vertex: $(7, 2, 4, 2, 2, 0, 3, 4, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

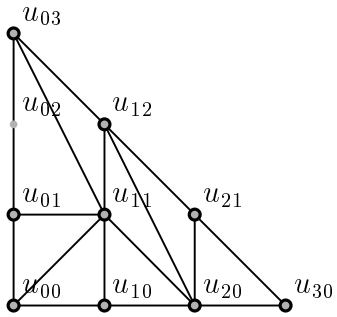
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 196. Vertex: $(7, 1, 4, 2, 2, 2, 3, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

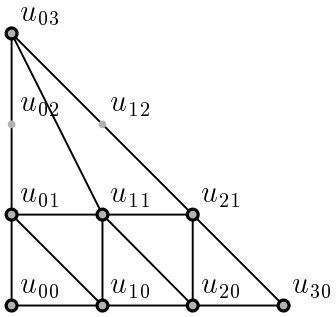
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 197. Vertex: $(7, 1, 3, 3, 1, 4, 4, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -5 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

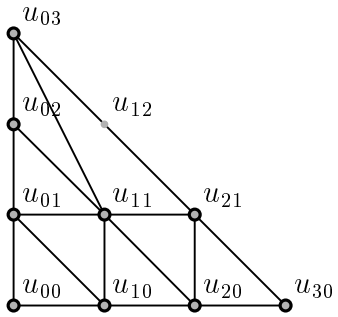
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 7 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03}
\end{aligned}$$

# 198. Vertex: $(7, 1, 3, 3, 1, 4, 3, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -5 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

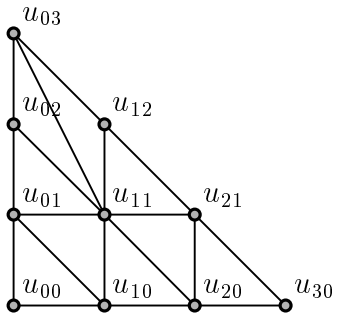
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 7 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 199. Vertex: $(7, 1, 3, 3, 1, 3, 3, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -5 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

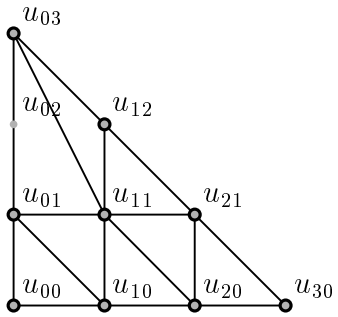
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 7 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 200. Vertex: $(7, 1, 3, 3, 1, 3, 4, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -5 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

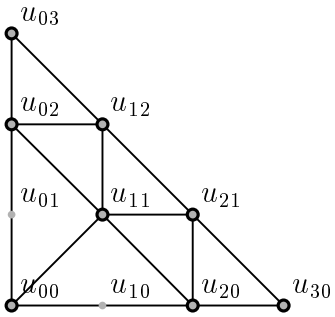
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 7 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 201. Vertex: $(7, 1, 4, 0, 4, 3, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

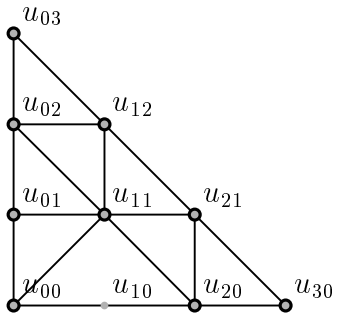
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 202. Vertex: $(7, 1, 4, 0, 3, 3, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

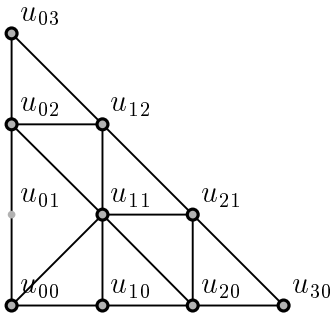
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 203. Vertex: $(7, 1, 3, 2, 3, 3, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

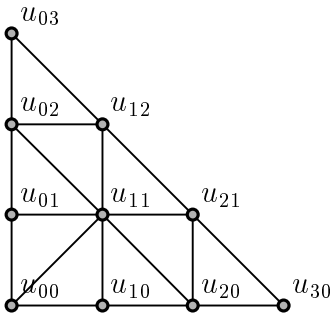
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 204. Vertex: $(7, 1, 3, 2, 2, 3, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -5 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

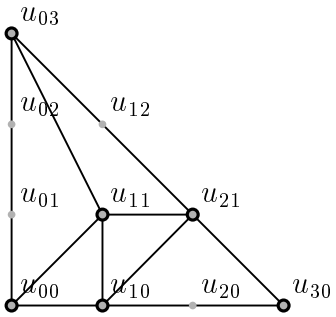
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 7 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 205. Vertex: $(7, 2, 0, 4, 4, 5, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

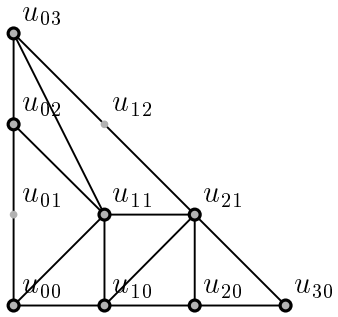
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03}
\end{aligned}$$

# 206. Vertex: $(7, 1, 2, 3, 3, 5, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

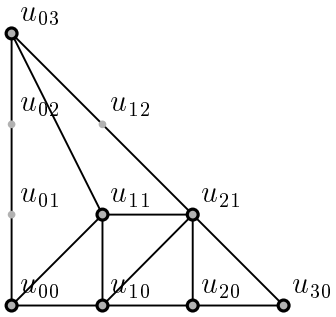
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 207. Vertex: $(7, 1, 2, 3, 4, 5, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

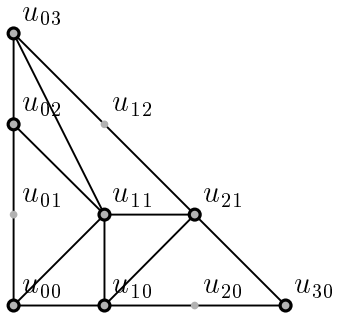
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03}
\end{aligned}$$

# 208. Vertex: $(7, 2, 0, 4, 3, 5, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

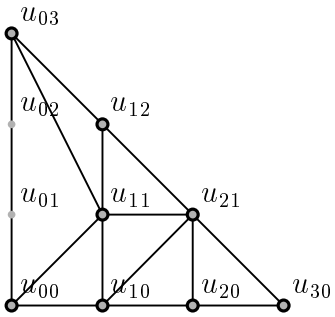
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 209. Vertex: $(7, 1, 2, 3, 4, 4, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

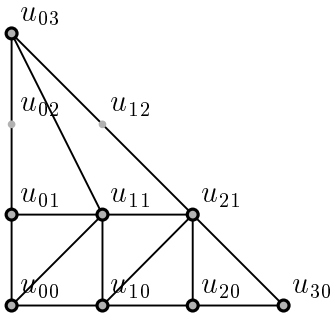
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 210. Vertex: $(7, 1, 2, 3, 2, 5, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

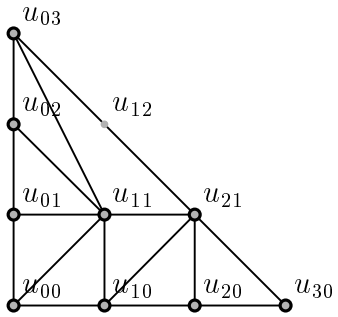
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 211. Vertex: $(7, 1, 2, 3, 2, 5, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

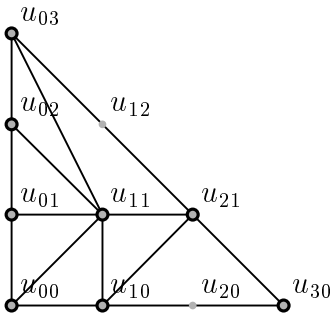
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 212. Vertex: $(7, 2, 0, 4, 2, 5, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

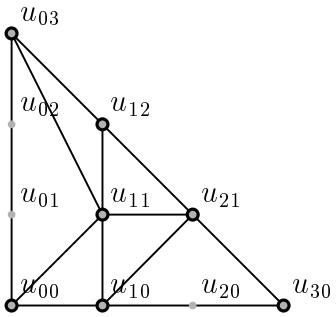
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 213. Vertex: $(7, 2, 0, 4, 4, 4, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

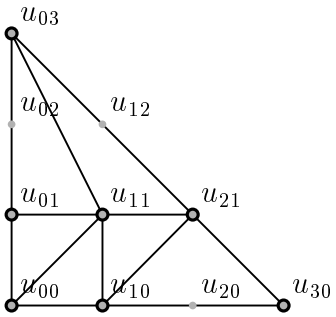
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 214. Vertex: $(7, 2, 0, 4, 2, 5, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

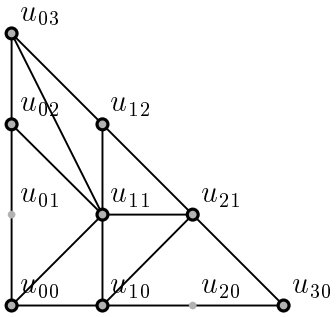
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 215. Vertex: $(7, 2, 0, 4, 3, 4, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

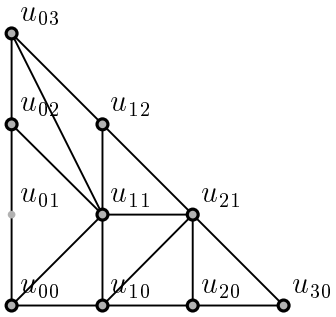
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 216. Vertex: $(7, 1, 2, 3, 3, 4, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

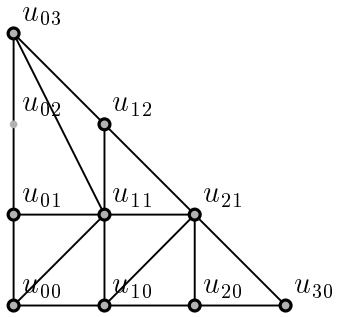
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 217. Vertex: $(7, 1, 2, 3, 2, 4, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

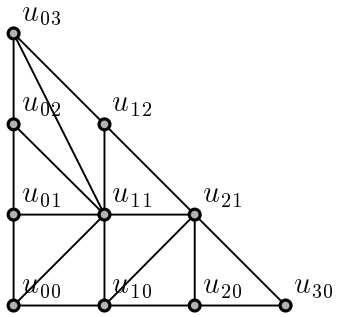
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 218. Vertex: $(7, 1, 2, 3, 2, 4, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

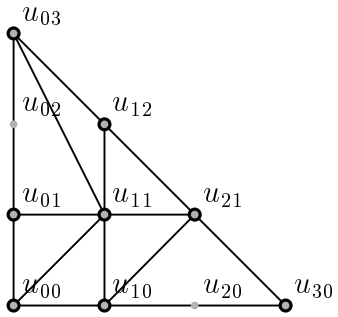
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 219. Vertex: $(7, 2, 0, 4, 2, 4, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

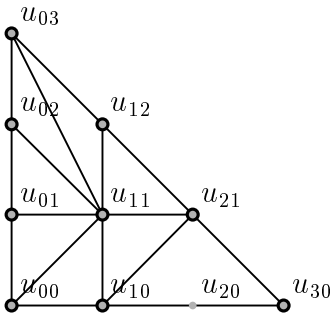
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 220. Vertex: $(7, 2, 0, 4, 2, 4, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

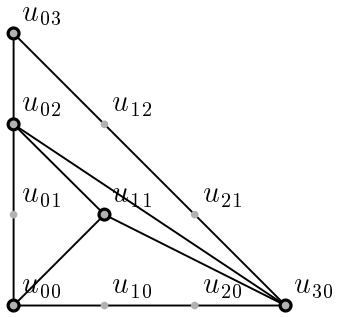
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 221. Vertex: $(6, 7, 0, 0, 5, 0, 0, 0, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

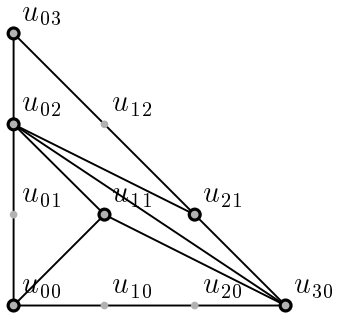
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
6 \cdot u_{11} &< 2 \cdot u_{30} + u_{00} + 3 \cdot u_{02}
\end{aligned}$$

# 222. Vertex: $(6, 5, 0, 0, 5, 3, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

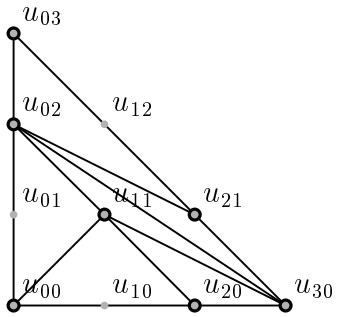
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
6 \cdot u_{11} &< 2 \cdot u_{30} + u_{00} + 3 \cdot u_{02}
\end{aligned}$$

# 223. Vertex: $(6, 3, 3, 0, 4, 3, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

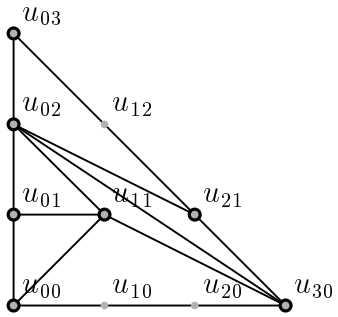
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

# 224. Vertex: $(6, 5, 0, 0, 4, 3, 2, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

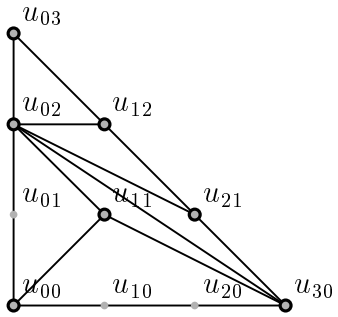
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01}
\end{aligned}$$

# 225. Vertex: $(6, 5, 0, 0, 5, 2, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

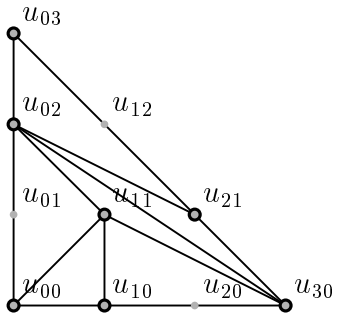
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{30} + u_{02} &< u_{11} + u_{21} \\ 2 \cdot u_{12} &< u_{21} + u_{03} \\ 2 \cdot u_{21} &< u_{30} + u_{12} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ 2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\ u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\ 6 \cdot u_{11} &< 2 \cdot u_{30} + u_{00} + 3 \cdot u_{02} \end{aligned}$$

# 226. Vertex: $(6, 4, 0, 3, 3, 3, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

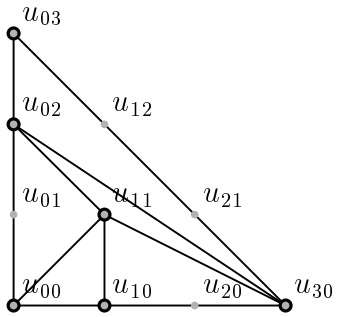
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 227. Vertex: $(6, 6, 0, 3, 3, 0, 0, 0, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

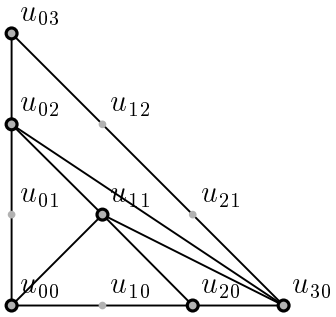
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 228. Vertex: $(6, 5, 3, 0, 4, 0, 0, 0, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

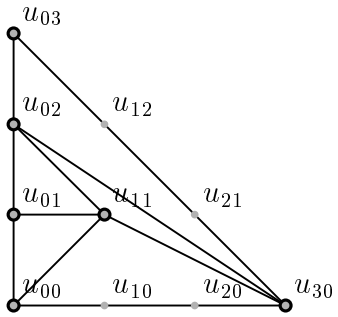
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

# 229. Vertex: $(6, 7, 0, 0, 4, 0, 2, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

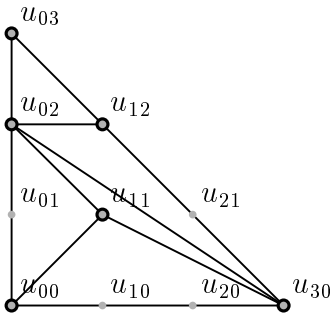
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01}
\end{aligned}$$

# 230. Vertex: $(6, 6, 0, 0, 5, 0, 0, 3, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

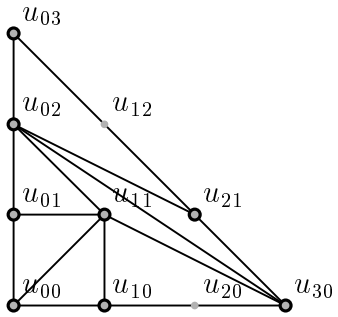
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
6 \cdot u_{11} &< 2 \cdot u_{30} + u_{00} + 3 \cdot u_{02}
\end{aligned}$$

# 231. Vertex: $(6, 4, 0, 3, 2, 3, 2, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

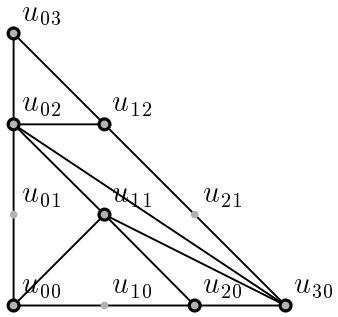
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 232. Vertex: $(6, 4, 3, 0, 4, 0, 0, 3, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

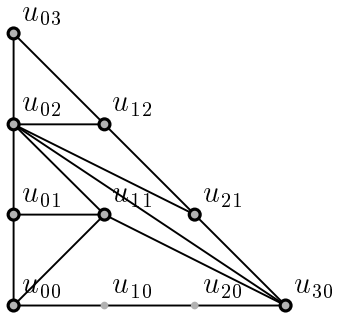
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\ 3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\ 3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\ u_{30} + u_{12} &< 2 \cdot u_{21} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ 6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02} \end{aligned}$$

# 233. Vertex: $(6, 5, 0, 0, 4, 2, 2, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

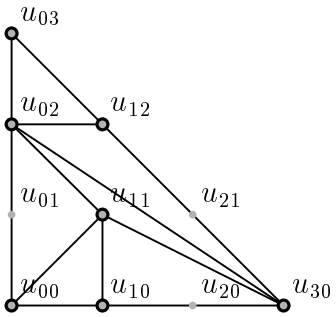
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01}
\end{aligned}$$

# 234. Vertex: $(6, 5, 0, 3, 3, 0, 0, 3, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

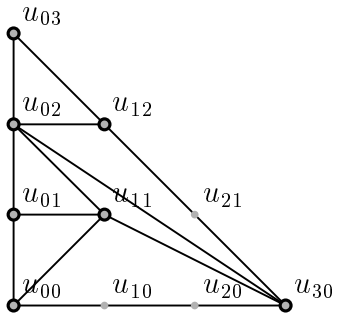
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 235. Vertex: $(6, 6, 0, 0, 4, 0, 2, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

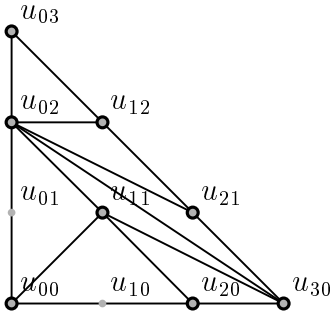
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
3 \cdot u_{11} + u_{00} &< u_{30} + 3 \cdot u_{01}
\end{aligned}$$

# 236. Vertex: $(6, 3, 3, 0, 4, 2, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

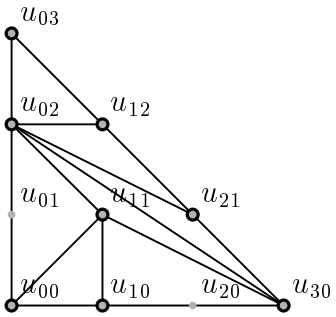
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{30} + u_{02} &< u_{11} + u_{21} \\ 2 \cdot u_{12} &< u_{21} + u_{03} \\ 3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\ 2 \cdot u_{21} &< u_{30} + u_{12} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ 6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02} \end{aligned}$$

# 237. Vertex: $(6, 4, 0, 3, 3, 2, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

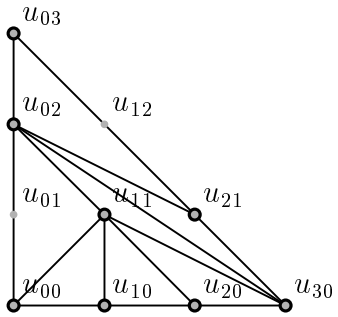
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 238. Vertex: $(6, 3, 2, 2, 3, 3, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

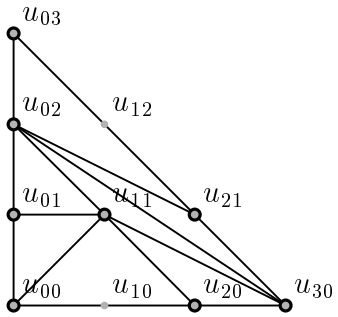
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 239. Vertex: $(6, 3, 3, 0, 3, 3, 2, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

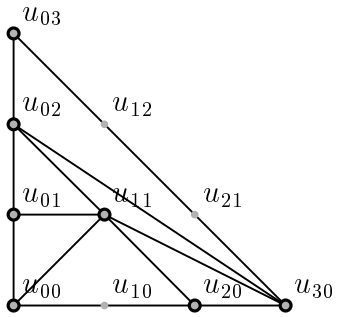
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 240. Vertex: $(6, 5, 3, 0, 3, 0, 2, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

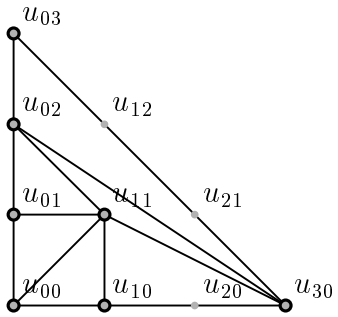
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 241. Vertex: $(6, 6, 0, 3, 2, 0, 2, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

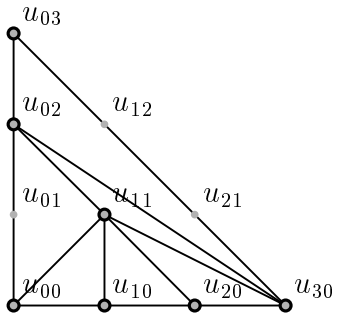
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 242. Vertex: $(6, 5, 2, 2, 3, 0, 0, 0, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

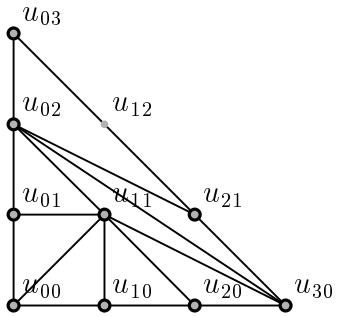
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 243. Vertex: $(6, 3, 2, 2, 2, 3, 2, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

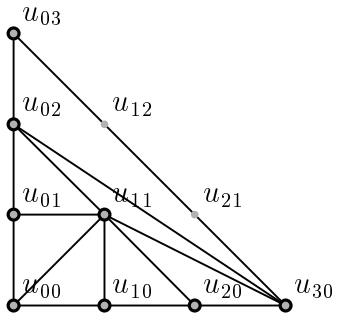
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{30} + u_{02} &< u_{11} + u_{21} \\ 2 \cdot u_{20} &< u_{30} + u_{10} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\ u_{21} + u_{03} &< 2 \cdot u_{12} \\ u_{11} + u_{00} &< u_{10} + u_{01} \end{aligned}$$

# 244. Vertex: $(6, 5, 2, 2, 2, 0, 2, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

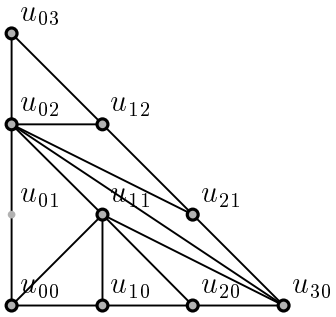
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 245. Vertex: $(6, 3, 2, 2, 3, 2, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

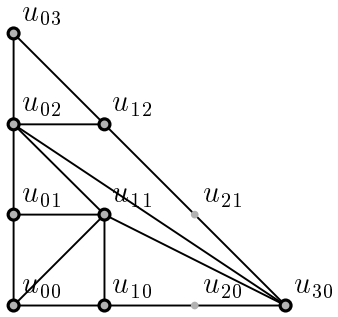
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 246. Vertex: $(6, 5, 0, 3, 2, 0, 2, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

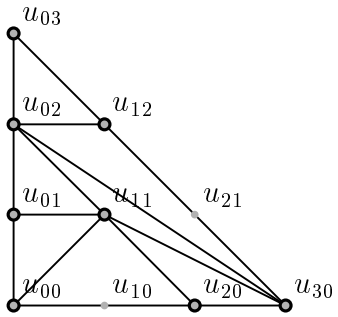
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 247. Vertex: $(6, 4, 3, 0, 3, 0, 2, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

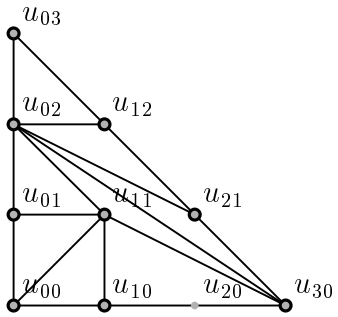
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 248. Vertex: $(6, 4, 0, 3, 2, 2, 2, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

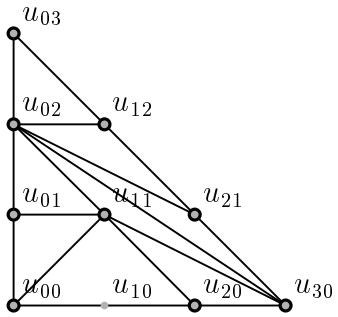
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{30} + u_{02} &< u_{11} + u_{21} \\ 2 \cdot u_{12} &< u_{21} + u_{03} \\ 3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{21} &< u_{30} + u_{12} \\ u_{30} + u_{10} &< 2 \cdot u_{20} \\ u_{11} + u_{00} &< u_{10} + u_{01} \end{aligned}$$

# 249. Vertex: $(6, 3, 3, 0, 3, 2, 2, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

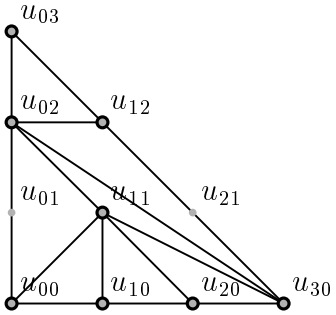
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 250. Vertex: $(6, 4, 2, 2, 3, 0, 0, 3, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

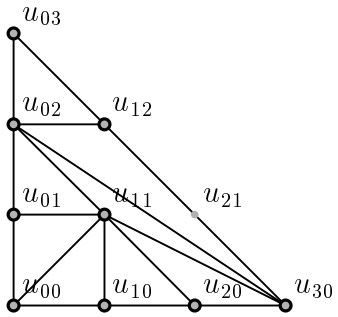
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 251. Vertex: $(6, 4, 2, 2, 2, 0, 2, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

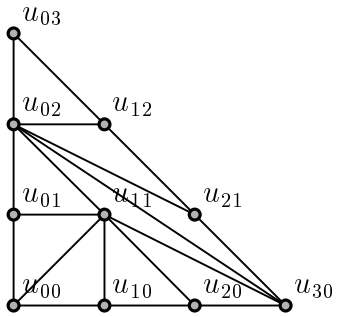
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 252. Vertex: $(6, 3, 2, 2, 2, 2, 2, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - u_{00} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

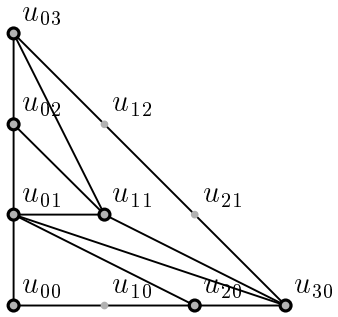
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{30} + u_{02} &< u_{11} + u_{21} \\ 2 \cdot u_{12} &< u_{21} + u_{03} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{20} &< u_{30} + u_{10} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{21} &< u_{30} + u_{12} \\ u_{11} + u_{00} &< u_{10} + u_{01} \end{aligned}$$

# 253. Vertex: $(6, 5, 3, 0, 2, 0, 5, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

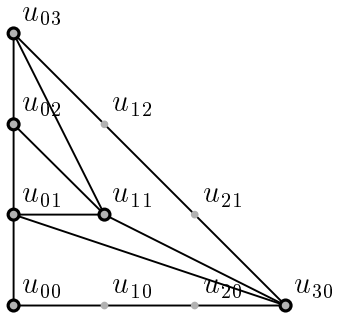
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02}
\end{aligned}$$

# 254. Vertex: $(6, 7, 0, 0, 3, 0, 5, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

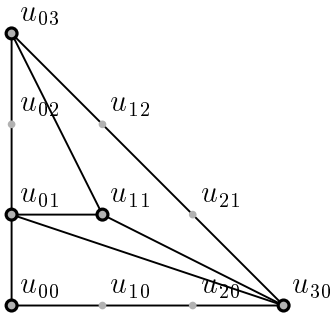
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02}
\end{aligned}$$

# 255. Vertex: $(6, 7, 0, 0, 3, 0, 6, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

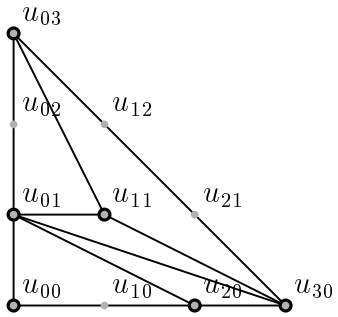
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
6 \cdot u_{11} &< 2 \cdot u_{30} + 3 \cdot u_{01} + u_{03}
\end{aligned}$$

# 256. Vertex: $(6, 5, 3, 0, 2, 0, 6, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

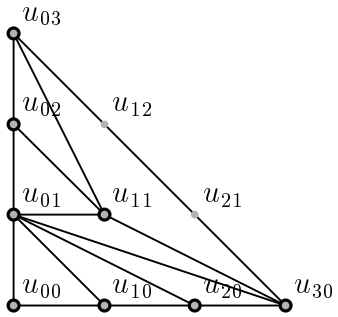
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
6 \cdot u_{11} &< 2 \cdot u_{30} + 3 \cdot u_{01} + u_{03}
\end{aligned}$$

# 257. Vertex: $(6, 5, 2, 2, 1, 0, 5, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

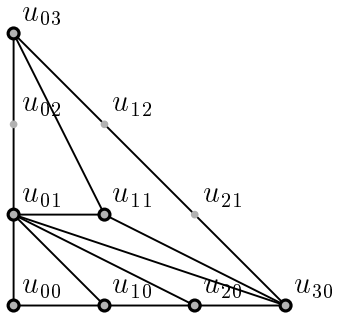
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02}
\end{aligned}$$

# 258. Vertex: $(6, 5, 2, 2, 1, 0, 6, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

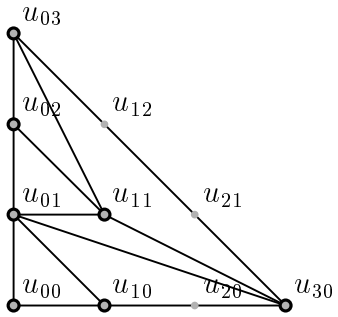
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
6 \cdot u_{11} &< 2 \cdot u_{30} + 3 \cdot u_{01} + u_{03}
\end{aligned}$$

# 259. Vertex: $(6, 6, 0, 3, 1, 0, 5, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

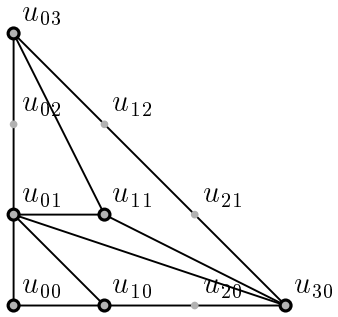
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
3 \cdot u_{11} + u_{03} &< u_{30} + 3 \cdot u_{02}
\end{aligned}$$

# 260. Vertex: $(6, 6, 0, 3, 1, 0, 6, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

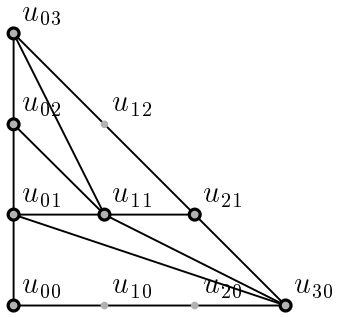
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
6 \cdot u_{11} &< 2 \cdot u_{30} + 3 \cdot u_{01} + u_{03}
\end{aligned}$$

# 261. Vertex: $(6, 5, 0, 0, 3, 3, 5, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

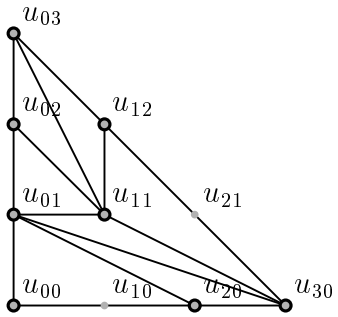
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 262. Vertex: $(6, 4, 3, 0, 2, 0, 5, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

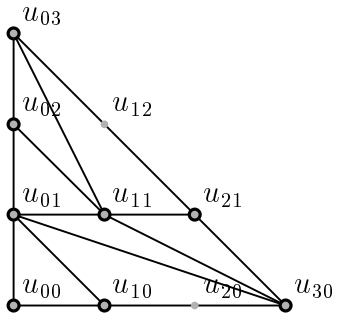
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 263. Vertex: $(6, 4, 0, 3, 1, 3, 5, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

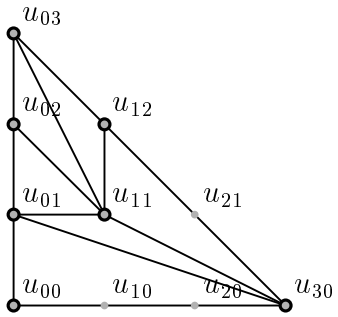
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 264. Vertex: $(6, 6, 0, 0, 3, 0, 5, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

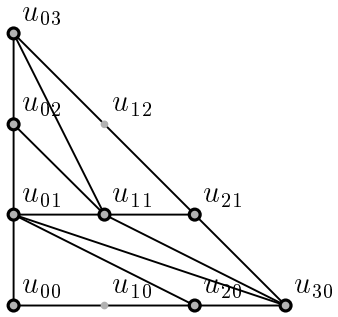
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 265. Vertex: $(6, 3, 3, 0, 2, 3, 5, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

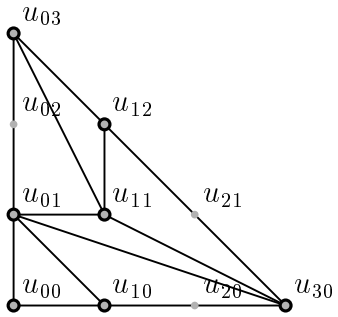
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 266. Vertex: $(6, 5, 0, 3, 1, 0, 6, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

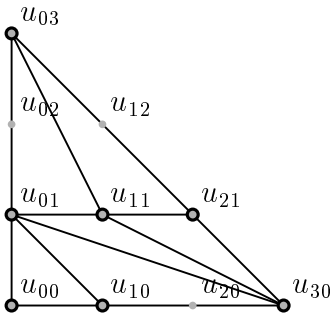
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 267. Vertex: $(6, 4, 0, 3, 1, 3, 6, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

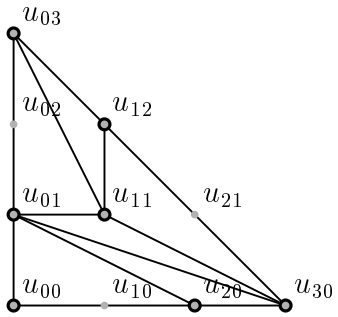
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 268. Vertex: $(6, 4, 3, 0, 2, 0, 6, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

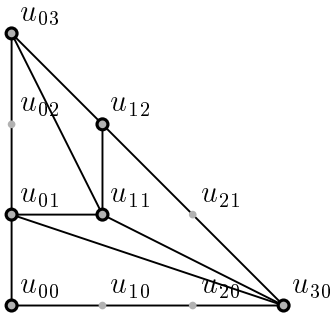
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 269. Vertex: $(6, 6, 0, 0, 3, 0, 6, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

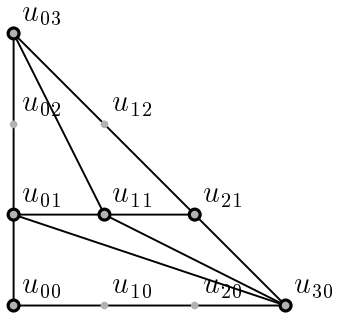
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 270. Vertex: $(6, 5, 0, 0, 3, 3, 6, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

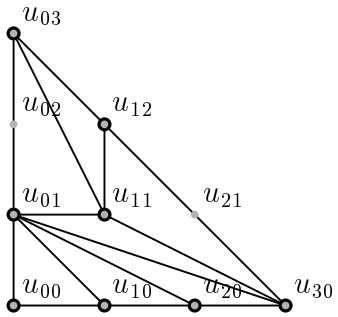
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 271. Vertex: $(6, 4, 2, 2, 1, 0, 6, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

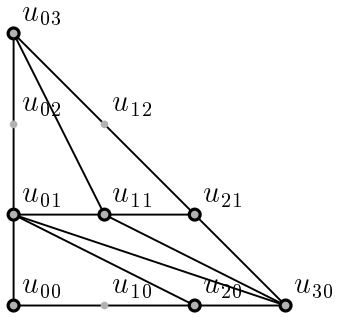
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 272. Vertex: $(6, 3, 3, 0, 2, 3, 6, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

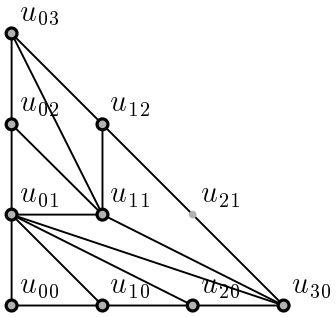
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 273. Vertex: $(6, 4, 2, 2, 1, 0, 5, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

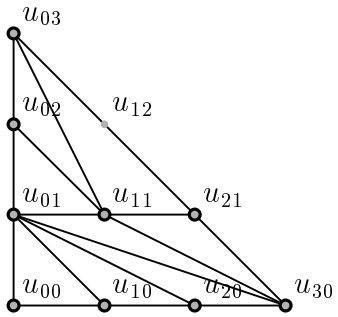
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 274. Vertex: $(6, 3, 2, 2, 1, 3, 5, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

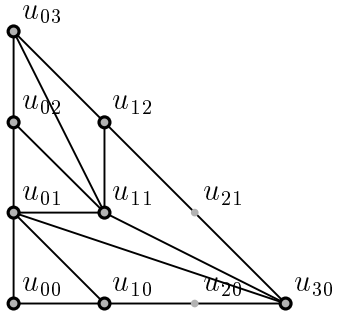
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 275. Vertex: $(6, 5, 0, 3, 1, 0, 5, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

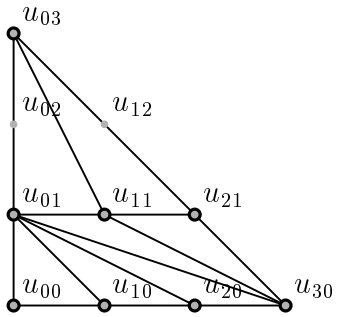
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 276. Vertex: $(6, 3, 2, 2, 1, 3, 6, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

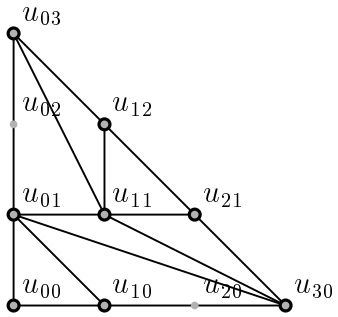
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 277. Vertex: $(6, 4, 0, 3, 1, 2, 6, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

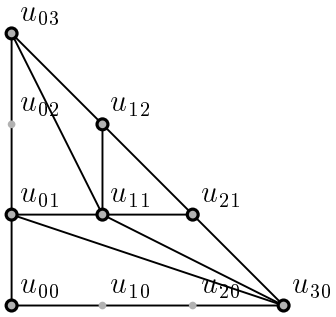
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 278. Vertex: $(6, 5, 0, 0, 3, 2, 6, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

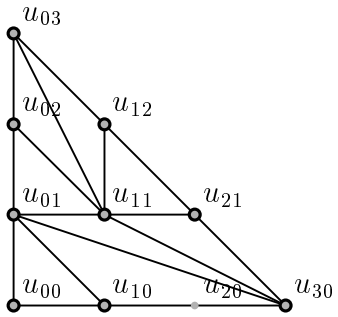
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 279. Vertex: $(6, 4, 0, 3, 1, 2, 5, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

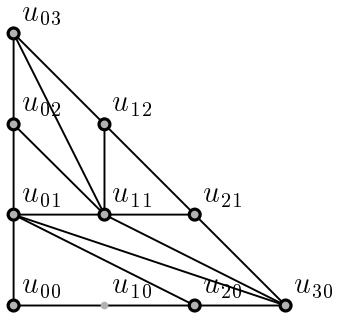
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 280. Vertex: $(6, 3, 3, 0, 2, 2, 5, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

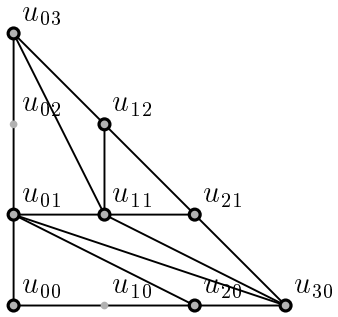
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 281. Vertex: $(6, 3, 3, 0, 2, 2, 6, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

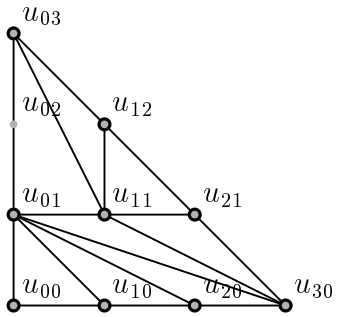
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 282. Vertex: $(6, 3, 2, 2, 1, 2, 6, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

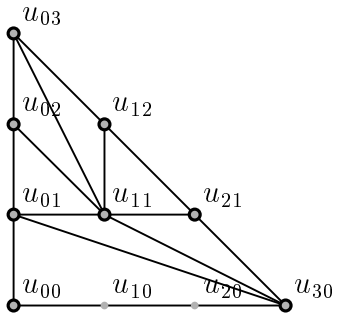
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 283. Vertex: $(6, 5, 0, 0, 3, 2, 5, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

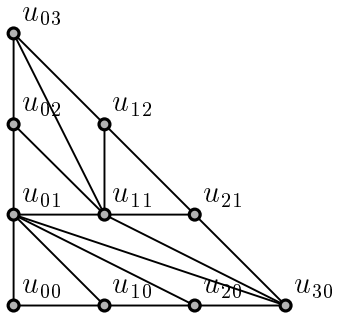
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 284. Vertex: $(6, 3, 2, 2, 1, 2, 5, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | -6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

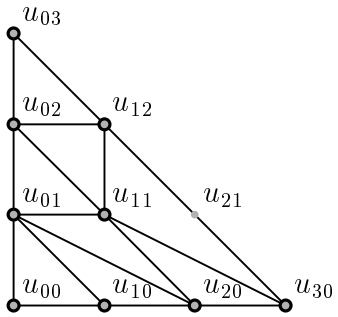
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 6 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{30} + u_{01} &< u_{11} + u_{20} \\ 2 \cdot u_{21} &< u_{30} + u_{12} \\ 2 \cdot u_{12} &< u_{21} + u_{03} \\ 2 \cdot u_{20} &< u_{30} + u_{10} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{02} &< u_{01} + u_{03} \\ u_{11} + u_{03} &< u_{12} + u_{02} \end{aligned}$$

# 285. Vertex: $(6, 3, 3, 2, 1, 0, 4, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

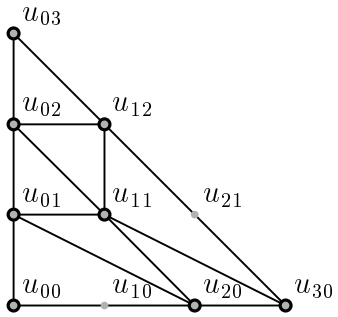
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 286. Vertex: $(6, 3, 4, 0, 2, 0, 4, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

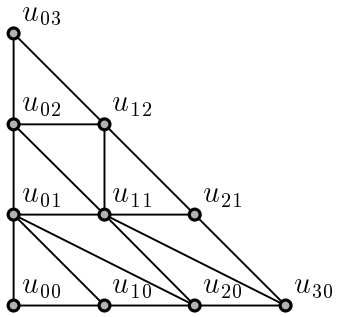
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 287. Vertex: $(6, 2, 3, 2, 1, 2, 4, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

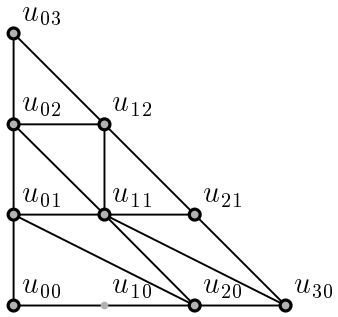
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 288. Vertex: $(6, 2, 4, 0, 2, 2, 4, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{20} - 2 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

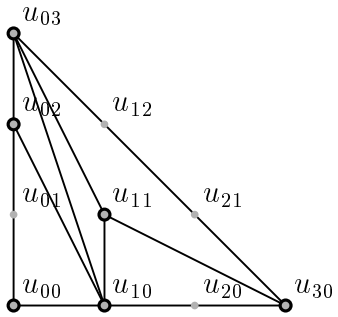
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 289. Vertex: $(6, 5, 0, 6, 2, 0, 0, 0, 3, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

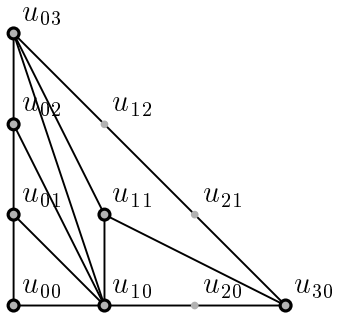
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
6 \cdot u_{11} &< u_{30} + 3 \cdot u_{10} + 2 \cdot u_{03}
\end{aligned}$$

# 290. Vertex: $(6, 5, 0, 6, 1, 0, 2, 0, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

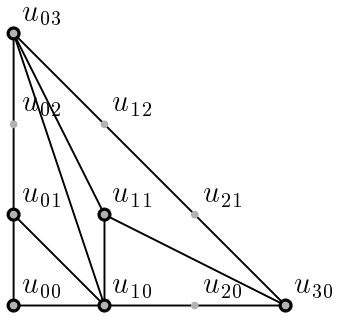
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
6 \cdot u_{11} &< u_{30} + 3 \cdot u_{10} + 2 \cdot u_{03}
\end{aligned}$$

# 291. Vertex: $(6, 5, 0, 6, 1, 0, 3, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

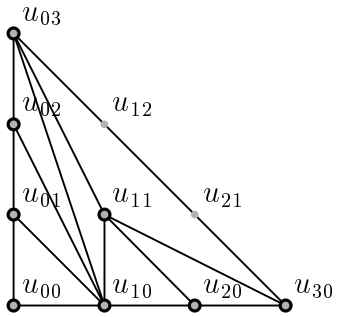
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
6 \cdot u_{11} &< u_{30} + 3 \cdot u_{10} + 2 \cdot u_{03}
\end{aligned}$$

# 292. Vertex: $(6, 4, 2, 5, 1, 0, 2, 0, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

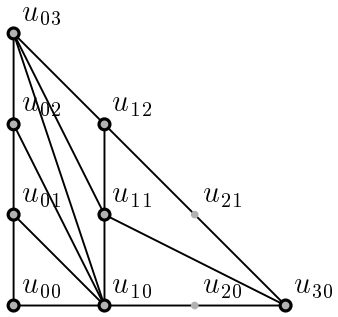
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 293. Vertex: $(6, 4, 0, 6, 1, 0, 2, 3, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

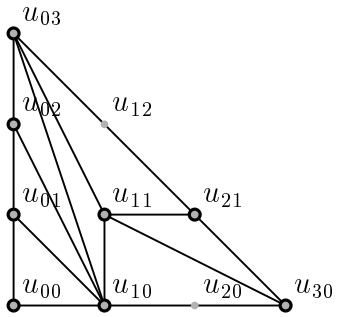
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 294. Vertex: $(6, 3, 0, 6, 1, 3, 2, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

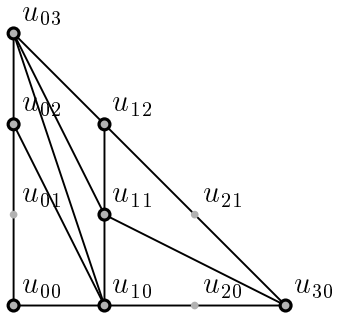
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 295. Vertex: $(6, 4, 0, 6, 2, 0, 0, 3, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

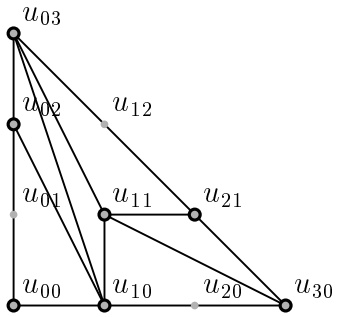
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 296. Vertex: $(6, 3, 0, 6, 2, 3, 0, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

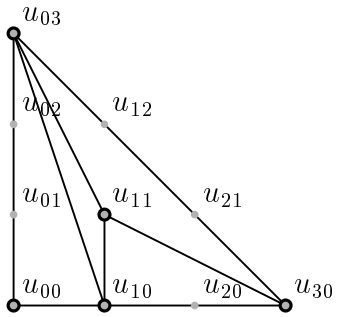
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 297. Vertex: $(6, 5, 0, 6, 3, 0, 0, 0, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

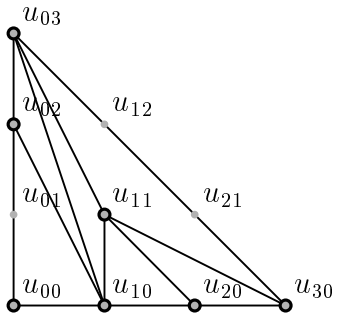
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
6 \cdot u_{11} &< u_{30} + 3 \cdot u_{10} + 2 \cdot u_{03}
\end{aligned}$$

# 298. Vertex: $(6, 4, 2, 5, 2, 0, 0, 0, 3, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

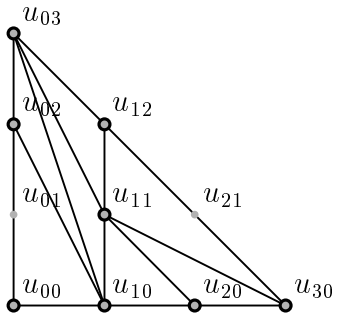
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 299. Vertex: $(6, 3, 2, 5, 2, 0, 0, 3, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

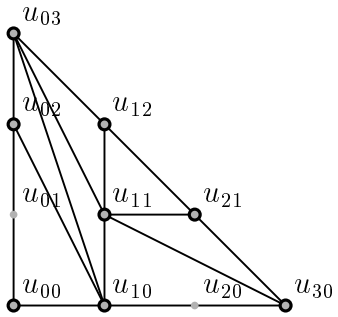
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 300. Vertex: $(6, 3, 0, 6, 2, 2, 0, 2, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

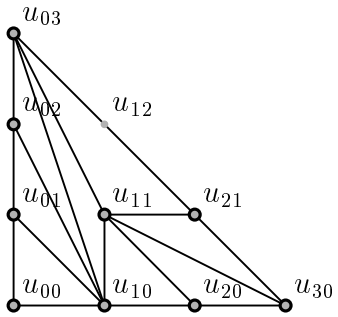
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 301. Vertex: $(6, 2, 2, 5, 1, 3, 2, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

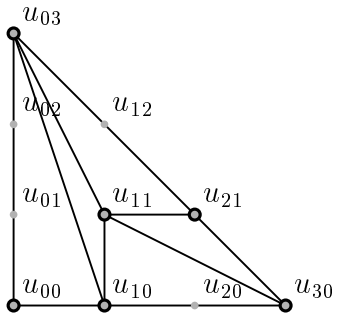
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 302. Vertex: $(6, 3, 0, 6, 3, 3, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

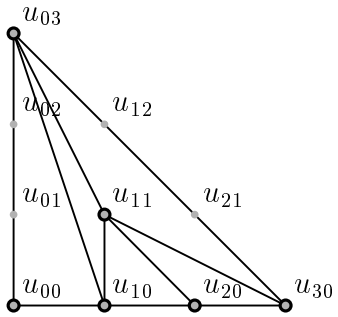
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 303. Vertex: $(6, 4, 2, 5, 3, 0, 0, 0, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

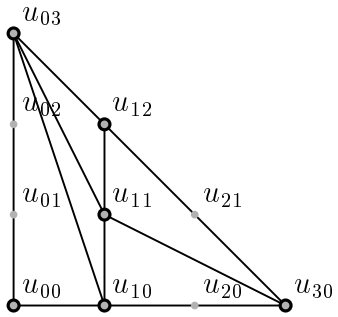
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 304. Vertex: $(6, 4, 0, 6, 3, 0, 0, 3, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

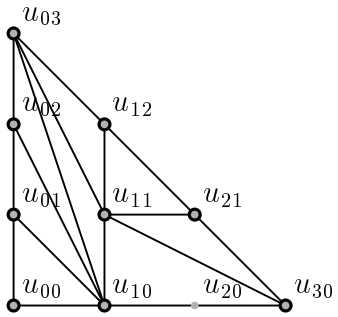
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 305. Vertex: $(6, 3, 0, 6, 1, 2, 2, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

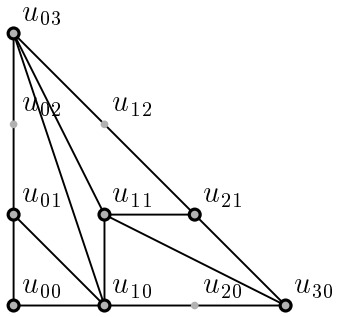
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 306. Vertex: $(6, 3, 0, 6, 1, 3, 3, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

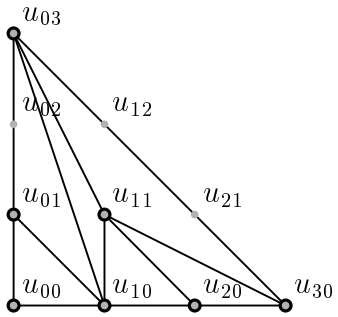
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 307. Vertex: $(6, 4, 2, 5, 1, 0, 3, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

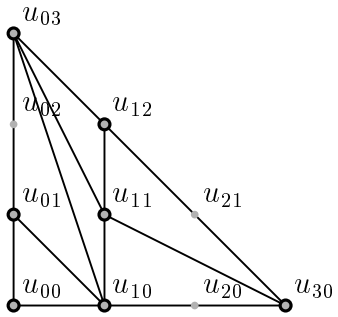
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{11} + u_{30} &< 3 \cdot u_{20} + u_{03}
\end{aligned}$$

# 308. Vertex: $(6, 4, 0, 6, 1, 0, 3, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

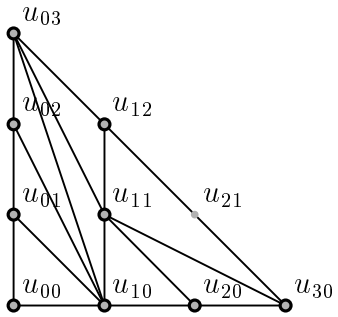
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 309. Vertex: $(6, 3, 2, 5, 1, 0, 2, 3, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

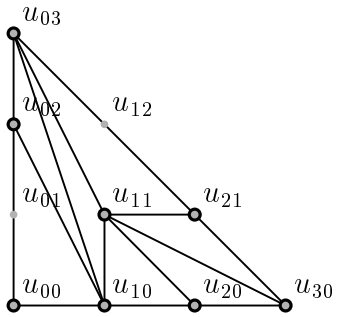
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 310. Vertex: $(6, 2, 2, 5, 2, 3, 0, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

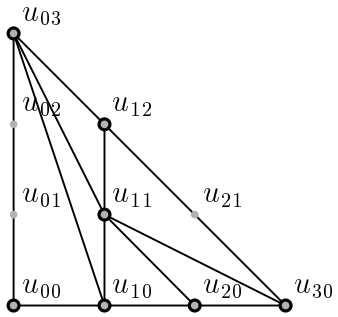
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 311. Vertex: $(6, 3, 2, 5, 3, 0, 0, 3, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

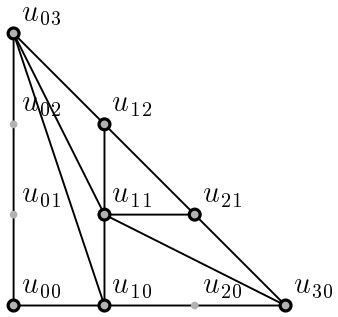
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 312. Vertex: $(6, 3, 0, 6, 3, 2, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

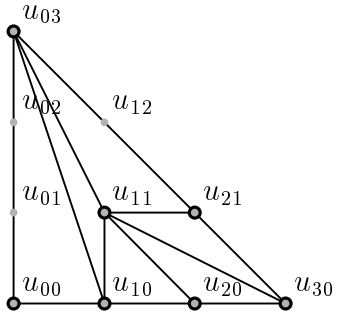
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 313. Vertex: $(6, 2, 2, 5, 3, 3, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

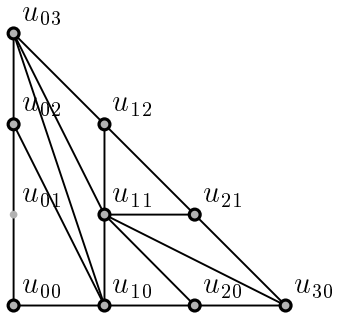
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 314. Vertex: $(6, 2, 2, 5, 2, 2, 0, 2, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

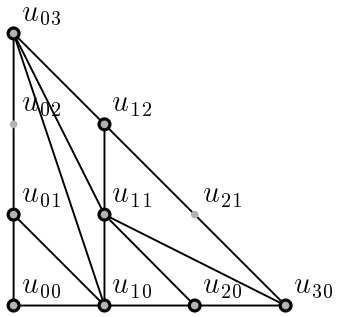
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 315. Vertex: $(6, 3, 2, 5, 1, 0, 3, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

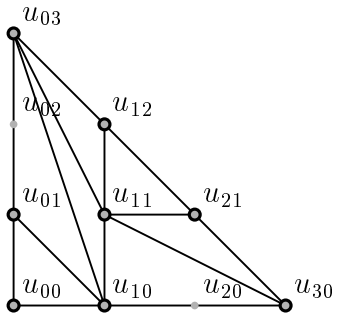
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 316. Vertex: $(6, 3, 0, 6, 1, 2, 3, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

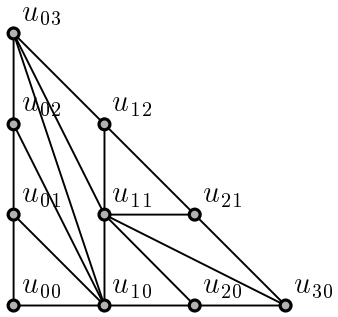
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 317. Vertex: $(6, 2, 2, 5, 1, 2, 2, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

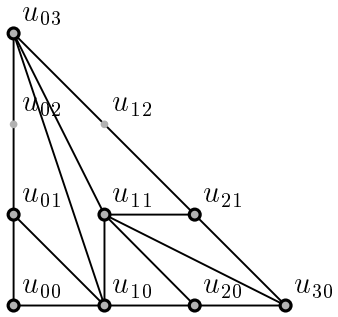
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{10} + u_{03} &< u_{11} + u_{02} \\ 2 \cdot u_{12} &< u_{21} + u_{03} \\ 2 \cdot u_{20} &< u_{30} + u_{10} \\ 2 \cdot u_{21} &< u_{30} + u_{12} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{02} &< u_{01} + u_{03} \\ u_{11} + u_{30} &< u_{20} + u_{21} \end{aligned}$$

# 318. Vertex: $(6, 2, 2, 5, 1, 3, 3, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

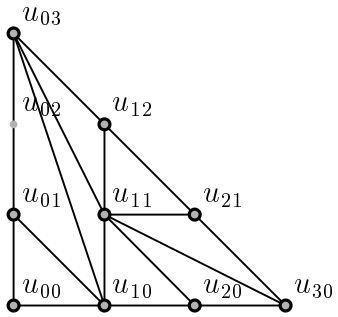
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 319. Vertex: $(6, 2, 2, 5, 1, 2, 3, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

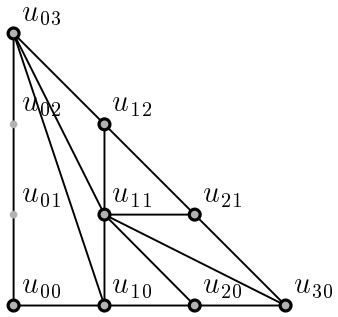
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 320. Vertex: $(6, 2, 2, 5, 3, 2, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 3 \cdot u_{10} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

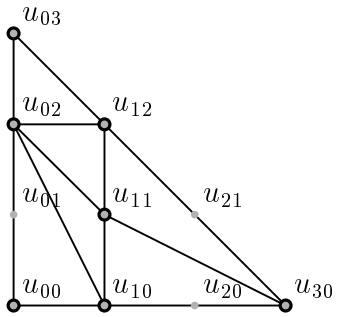
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 321. Vertex: $(6, 4, 0, 5, 2, 0, 0, 4, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

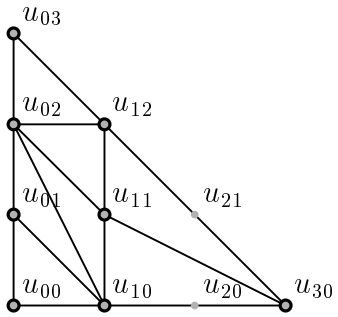
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 322. Vertex: $(6, 4, 0, 5, 1, 0, 2, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

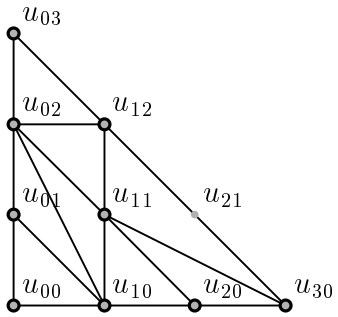
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 323. Vertex: $(6, 3, 2, 4, 1, 0, 2, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

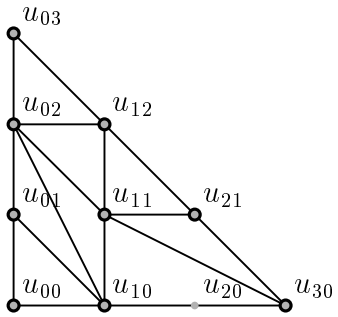
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 324. Vertex: $(6, 3, 0, 5, 1, 2, 2, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

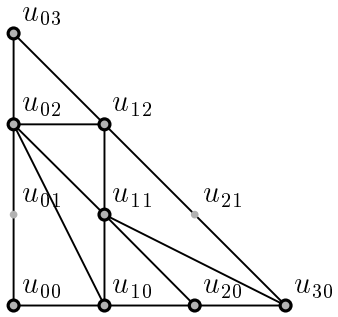
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 325. Vertex: $(6, 3, 2, 4, 2, 0, 0, 4, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

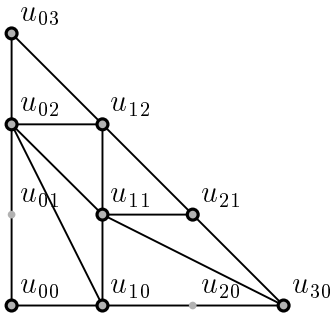
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 326. Vertex: $(6, 3, 0, 5, 2, 2, 0, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

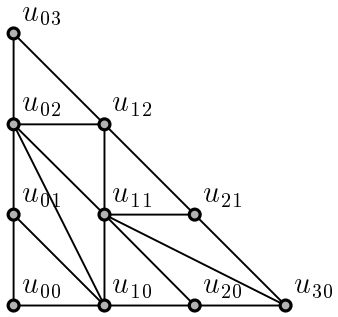
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 327. Vertex: $(6, 2, 2, 4, 1, 2, 2, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

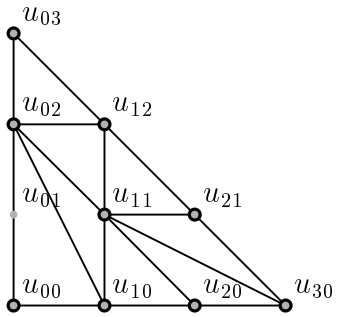
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 328. Vertex: $(6, 2, 2, 4, 2, 2, 0, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

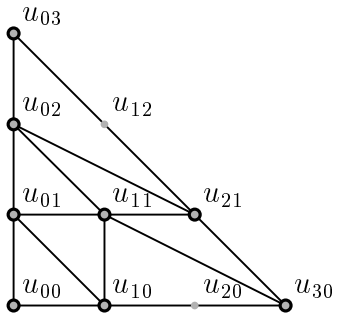
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 329. Vertex: $(6, 3, 0, 4, 1, 4, 3, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - u_{21} - u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | -6 | 1 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

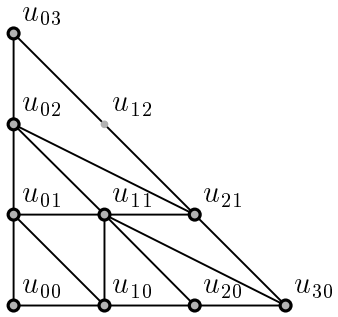
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | 6 | 1 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 330. Vertex: $(6, 2, 2, 3, 1, 4, 3, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - u_{21} - u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | -6 | 1 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

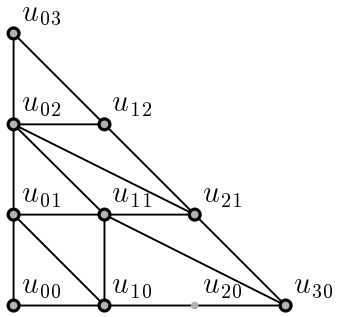
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | 6 | 1 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 331. Vertex: $(6, 3, 0, 4, 1, 3, 3, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - u_{21} - u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | -6 | 1 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

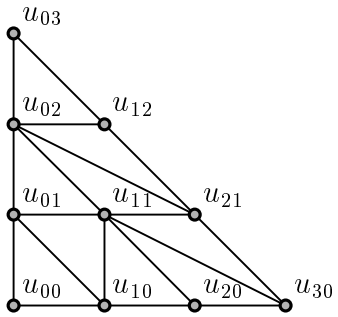
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | 6 | 1 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 332. Vertex: $(6, 2, 2, 3, 1, 3, 3, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - u_{21} - u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | -6 | 1 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

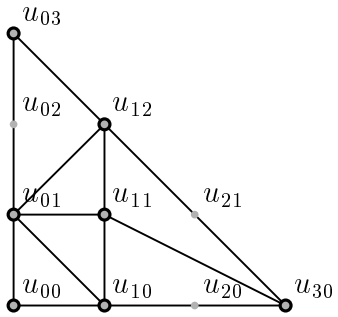
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | 6 | 1 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 333. Vertex: $(6, 4, 0, 4, 1, 0, 5, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

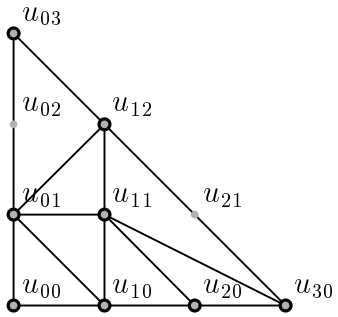
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 334. Vertex: $(6, 3, 2, 3, 1, 0, 5, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

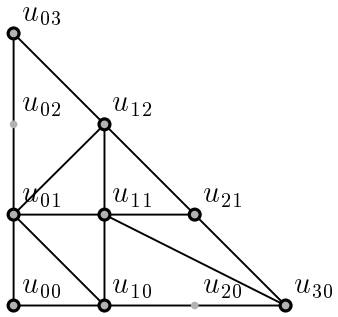
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 335. Vertex: $(6, 3, 0, 4, 1, 2, 5, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

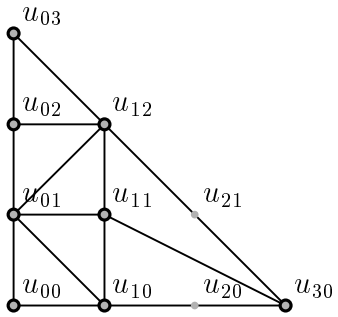
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 336. Vertex: $(6, 4, 0, 4, 1, 0, 4, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

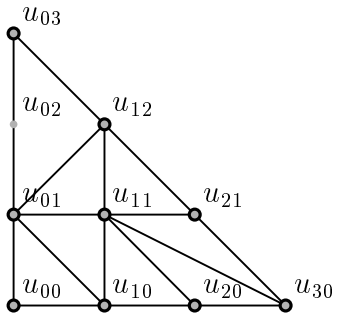
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 337. Vertex: $(6, 2, 2, 3, 1, 2, 5, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

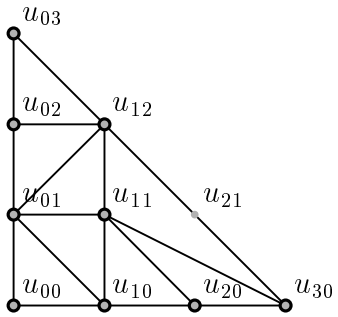
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 338. Vertex: $(6, 3, 2, 3, 1, 0, 4, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

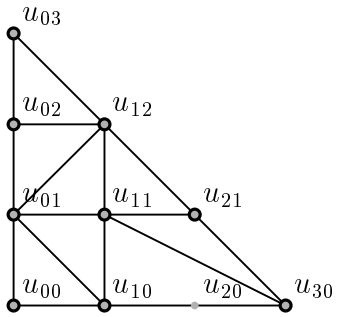
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 339. Vertex: $(6, 3, 0, 4, 1, 2, 4, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

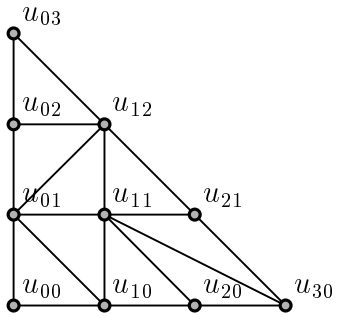
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 340. Vertex: $(6, 2, 2, 3, 1, 2, 4, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - u_{10} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

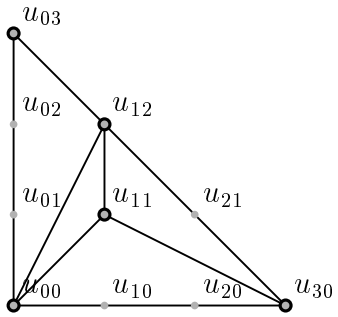
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 6 | 0 | |
| 0 | 0 | 1 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 341. Vertex: $(6, 5, 0, 0, 7, 0, 0, 6, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

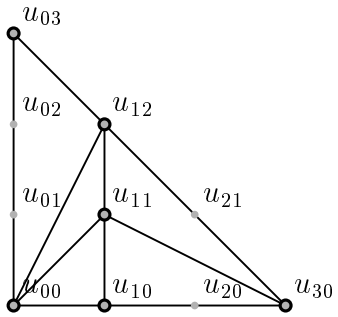
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
6 \cdot u_{11} &< u_{30} + 2 \cdot u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 342. Vertex: $(6, 4, 0, 3, 5, 0, 0, 6, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

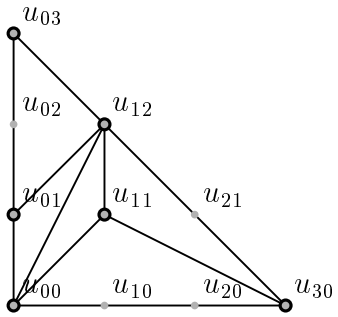
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 343. Vertex: $(6, 5, 0, 0, 5, 0, 3, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

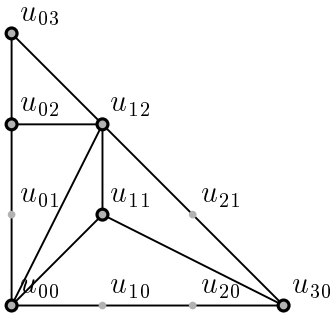
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
6 \cdot u_{11} &< u_{30} + 2 \cdot u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 344. Vertex: $(6, 5, 0, 0, 6, 0, 0, 6, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

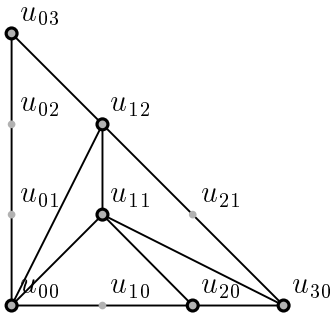
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
6 \cdot u_{11} &< u_{30} + 2 \cdot u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 345. Vertex: $(6, 3, 3, 0, 6, 0, 0, 6, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

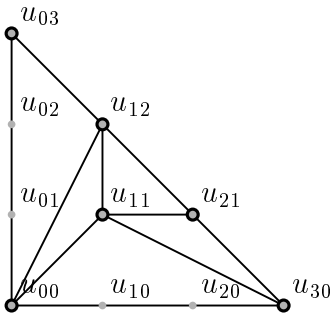
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 346. Vertex: $(6, 4, 0, 0, 7, 2, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

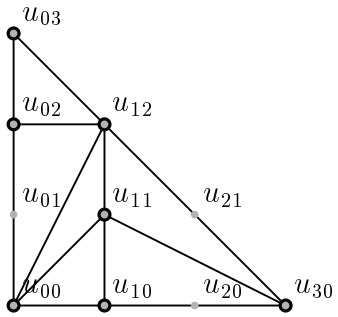
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 347. Vertex: $(6, 4, 0, 3, 4, 0, 0, 6, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

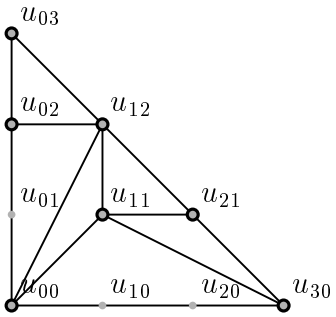
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 348. Vertex: $(6, 4, 0, 0, 6, 2, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

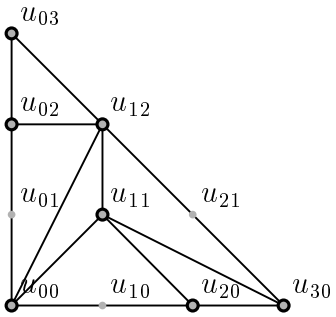
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 349. Vertex: $(6, 3, 3, 0, 5, 0, 0, 6, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

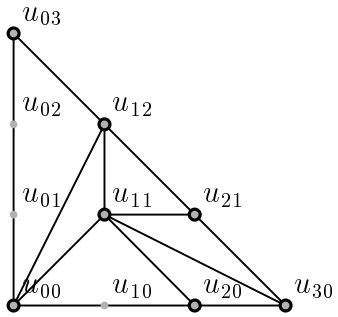
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 350. Vertex: $(6, 2, 3, 0, 6, 2, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

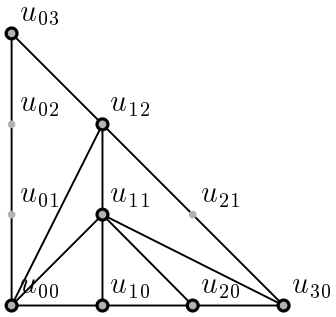
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 351. Vertex: $(6, 3, 2, 2, 5, 0, 0, 6, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

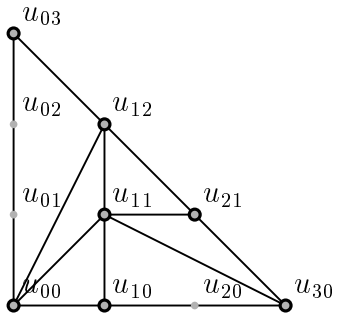
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 352. Vertex: $(6, 3, 0, 3, 5, 2, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

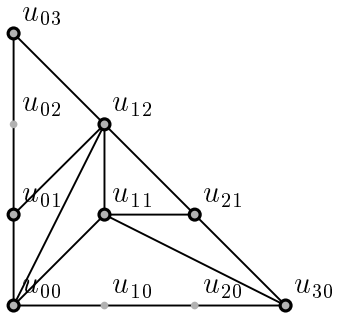
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 353. Vertex: $(6, 4, 0, 0, 5, 2, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

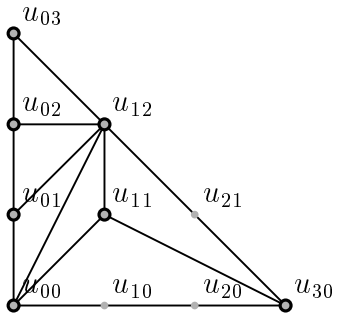
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 354. Vertex: $(6, 5, 0, 0, 5, 0, 2, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

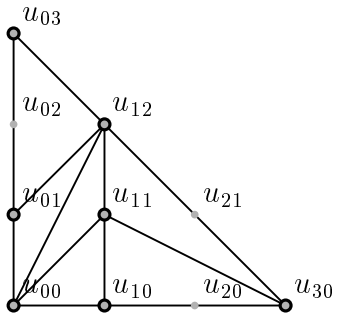
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
6 \cdot u_{11} &< u_{30} + 2 \cdot u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 355. Vertex: $(6, 4, 0, 3, 3, 0, 3, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

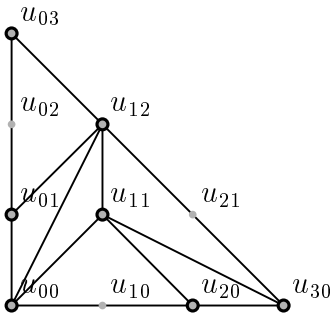
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 356. Vertex: $(6, 3, 3, 0, 4, 0, 3, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

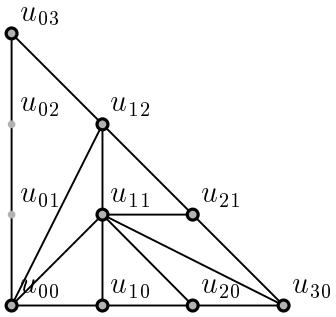
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 357. Vertex: $(6, 2, 2, 2, 5, 2, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

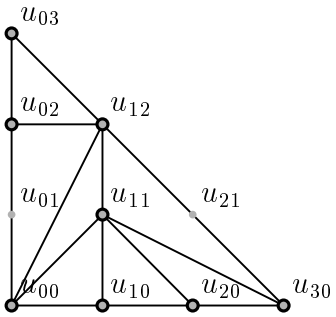
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 358. Vertex: $(6, 3, 2, 2, 4, 0, 0, 6, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

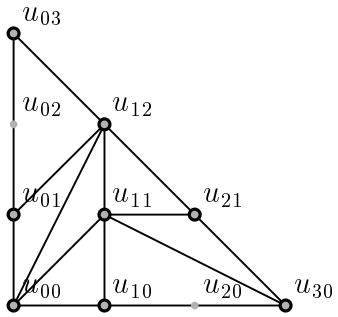
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 359. Vertex: $(6, 3, 0, 3, 3, 2, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

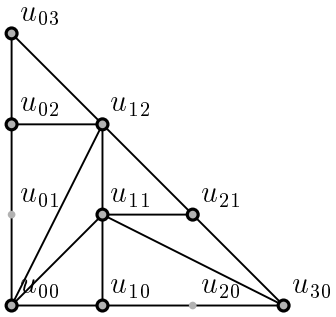
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 360. Vertex: $(6, 3, 0, 3, 4, 2, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

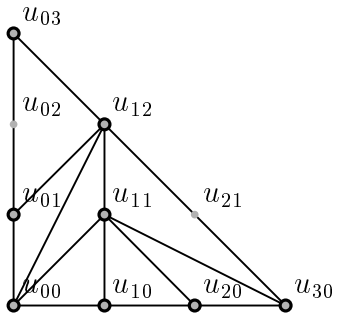
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 361. Vertex: $(6, 3, 2, 2, 3, 0, 3, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

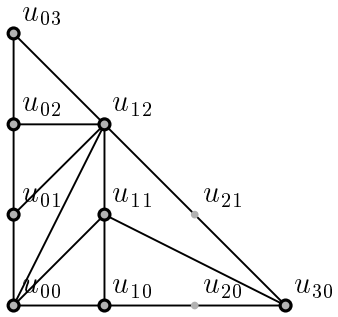
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 362. Vertex: $(6, 4, 0, 3, 3, 0, 2, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

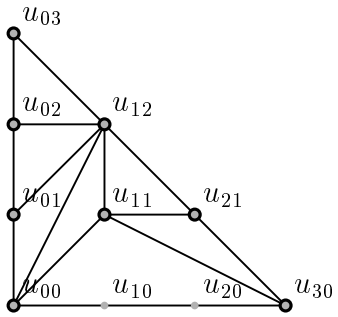
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
6 \cdot u_{11} &< 3 \cdot u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 363. Vertex: $(6, 4, 0, 0, 5, 2, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

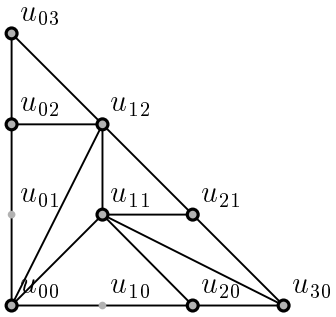
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
3 \cdot u_{11} + u_{30} &< u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 364. Vertex: $(6, 2, 3, 0, 5, 2, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

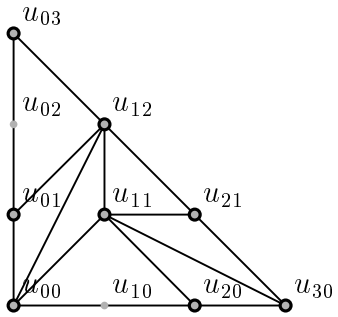
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 365. Vertex: $(6, 2, 3, 0, 4, 2, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

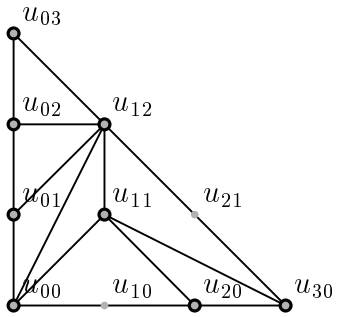
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 366. Vertex: $(6, 3, 3, 0, 4, 0, 2, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

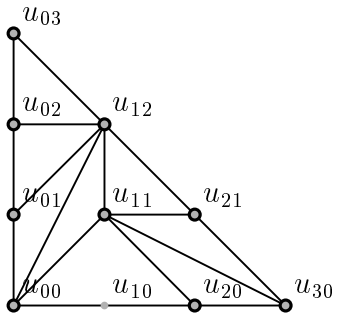
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 367. Vertex: $(6, 2, 3, 0, 4, 2, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

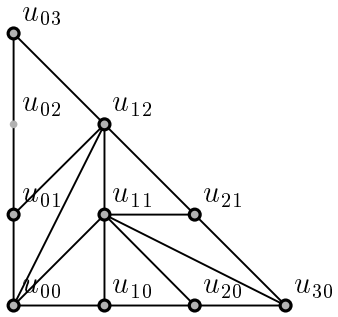
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 368. Vertex: $(6, 2, 2, 2, 3, 2, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

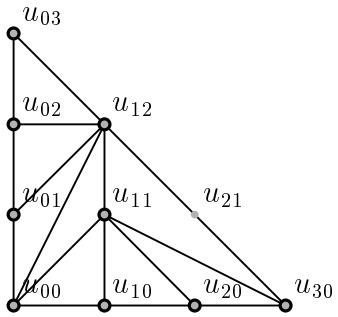
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 369. Vertex: $(6, 3, 2, 2, 3, 0, 2, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

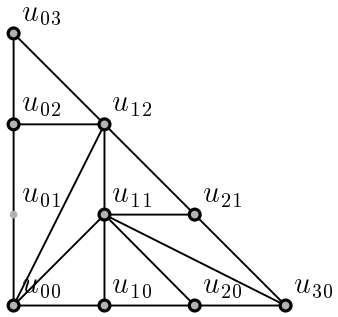
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 370. Vertex: $(6, 2, 2, 2, 4, 2, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

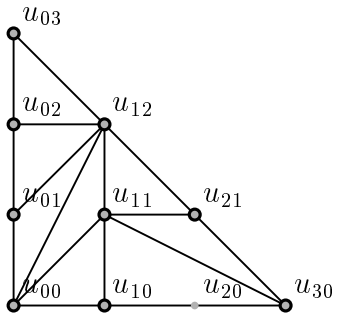
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 371. Vertex: $(6, 3, 0, 3, 3, 2, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

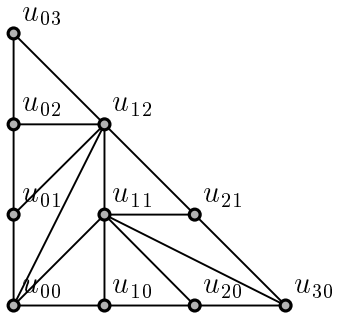
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 372. Vertex: $(6, 2, 2, 2, 3, 2, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{30} - 2 \cdot u_{00} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

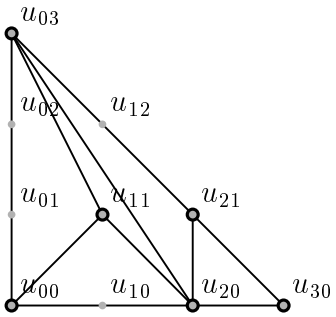
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 2 | 0 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 373. Vertex: $(6, 1, 6, 0, 5, 3, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

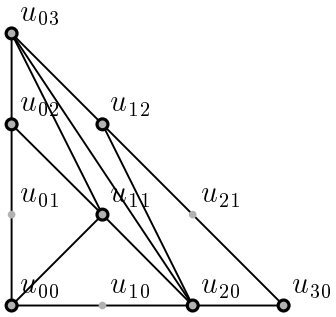
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + u_{00} + 2 \cdot u_{03}
\end{aligned}$$

# 374. Vertex: $(6, 2, 6, 0, 4, 0, 0, 3, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

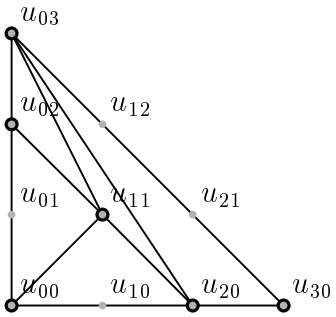
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

# 375. Vertex: $(6, 3, 6, 0, 4, 0, 0, 0, 3, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

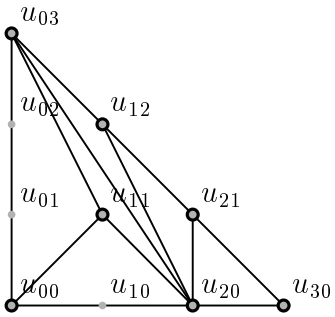
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

# 376. Vertex: $(6, 1, 6, 0, 5, 2, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

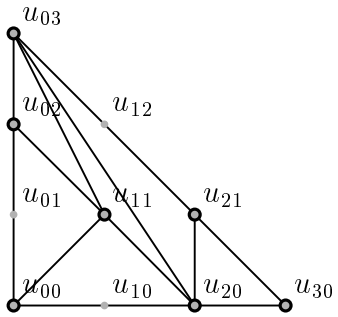
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + u_{00} + 2 \cdot u_{03}
\end{aligned}$$

# 377. Vertex: $(6, 1, 6, 0, 4, 3, 0, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

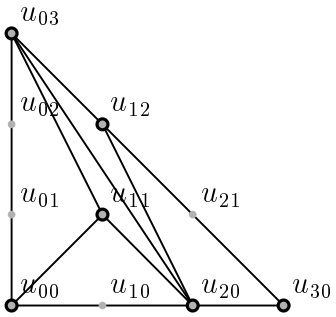
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

# 378. Vertex: $(6, 2, 6, 0, 5, 0, 0, 3, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

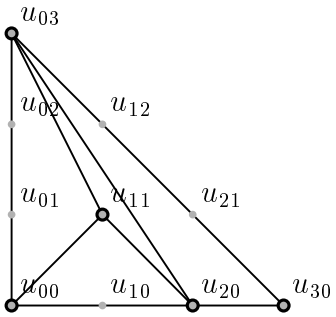
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + u_{00} + 2 \cdot u_{03}
\end{aligned}$$

# 379. Vertex: $(6, 3, 6, 0, 5, 0, 0, 0, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

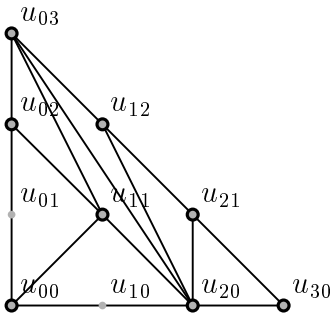
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + u_{00} + 2 \cdot u_{03}
\end{aligned}$$

# 380. Vertex: $(6, 1, 6, 0, 4, 2, 0, 2, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

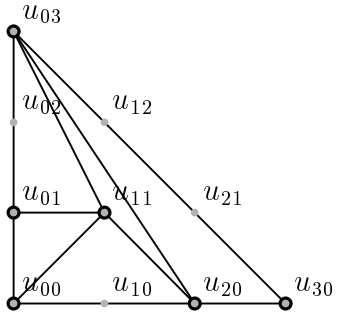
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

# 381. Vertex: $(6, 3, 6, 0, 3, 0, 3, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

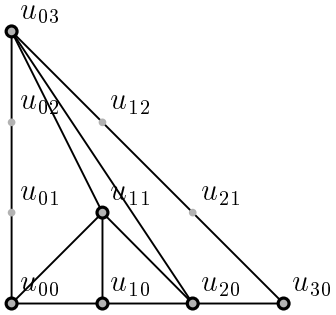
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 382. Vertex: $(6, 3, 5, 2, 4, 0, 0, 0, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

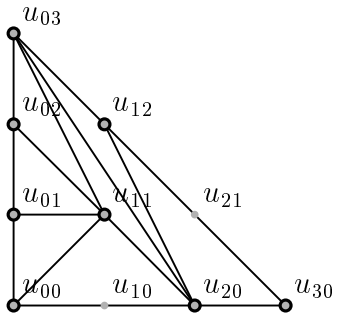
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03}
\end{aligned}$$

# 383. Vertex: $(6, 2, 6, 0, 3, 0, 2, 3, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

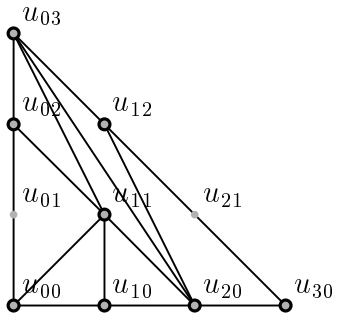
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 384. Vertex: $(6, 2, 5, 2, 3, 0, 0, 3, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

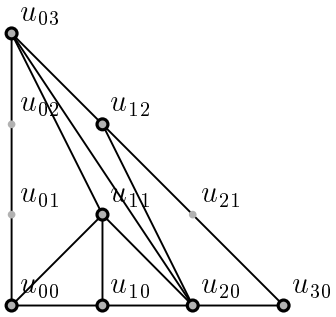
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 385. Vertex: $(6, 2, 5, 2, 4, 0, 0, 3, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

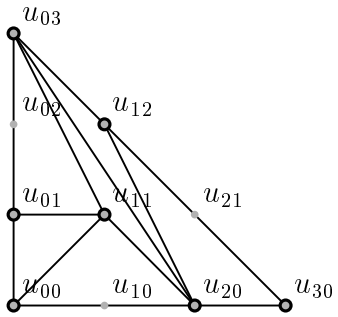
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03}
\end{aligned}$$

# 386. Vertex: $(6, 2, 6, 0, 3, 0, 3, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

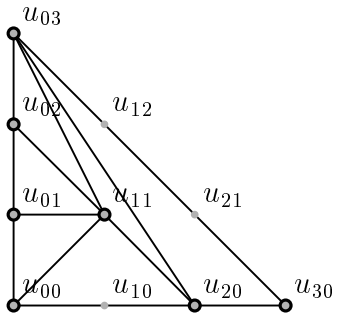
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 387. Vertex: $(6, 3, 6, 0, 3, 0, 2, 0, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

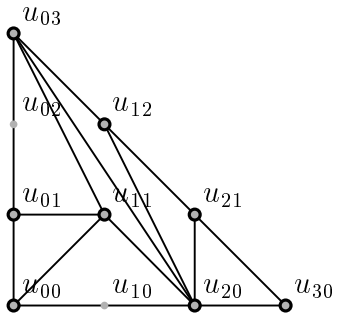
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 388. Vertex: $(6, 1, 6, 0, 3, 2, 3, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

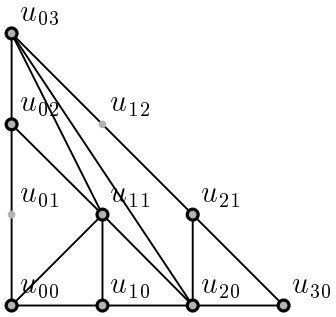
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 389. Vertex: $(6, 1, 5, 2, 3, 3, 0, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

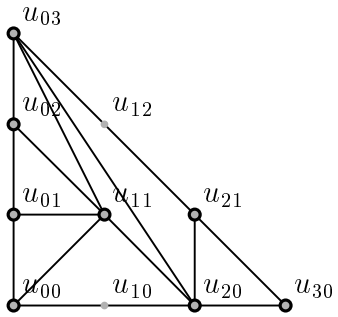
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 390. Vertex: $(6, 1, 6, 0, 3, 3, 2, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

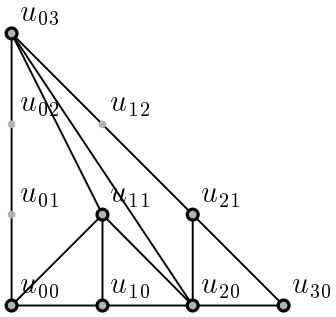
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 391. Vertex: $(6, 1, 5, 2, 4, 3, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

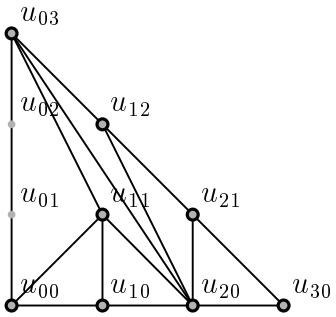
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03}
\end{aligned}$$

# 392. Vertex: $(6, 1, 5, 2, 4, 2, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

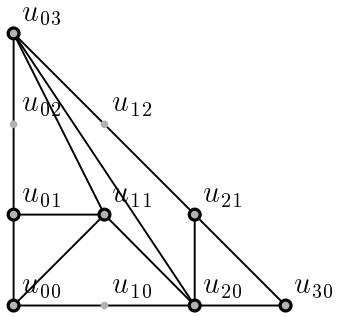
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{00} &< 3 \cdot u_{10} + u_{03}
\end{aligned}$$

# 393. Vertex: $(6, 1, 6, 0, 3, 3, 3, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

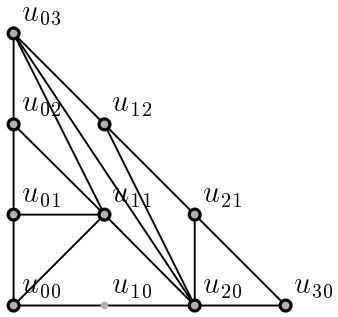
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 394. Vertex: $(6, 1, 6, 0, 3, 2, 2, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

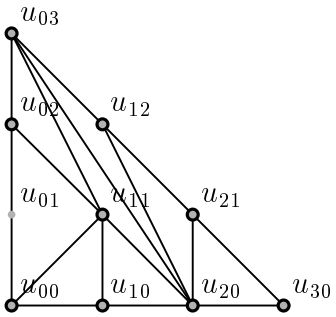
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 395. Vertex: $(6, 1, 5, 2, 3, 2, 0, 2, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

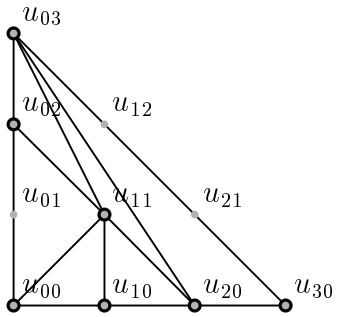
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 396. Vertex: $(6, 3, 5, 2, 3, 0, 0, 0, 3, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

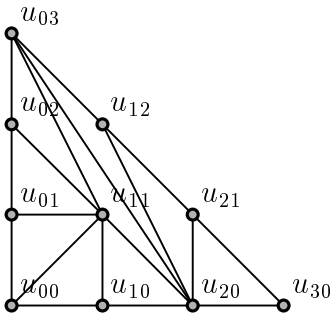
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 397. Vertex: $(6, 1, 5, 2, 2, 2, 2, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

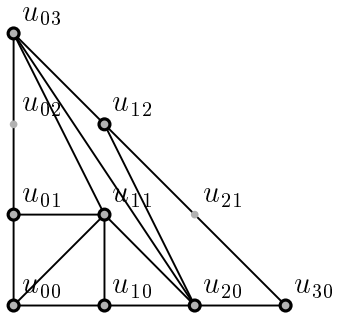
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{03} &< u_{11} + u_{12} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{02} &< u_{01} + u_{03} \\ 2 \cdot u_{12} &< u_{21} + u_{03} \\ 2 \cdot u_{21} &< u_{30} + u_{12} \\ u_{11} + u_{00} &< u_{10} + u_{01} \end{aligned}$$

# 398. Vertex: $(6, 2, 5, 2, 2, 0, 3, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

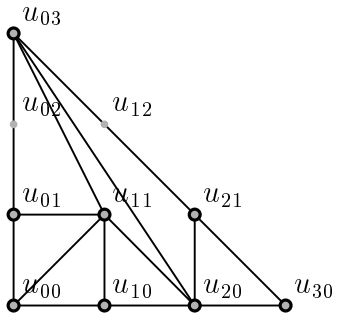
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 399. Vertex: $(6, 1, 5, 2, 2, 3, 3, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

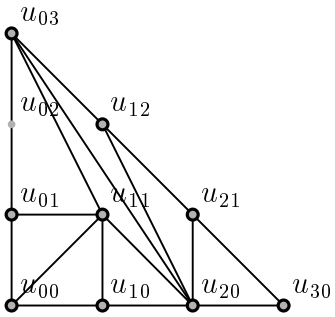
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 400. Vertex: $(6, 1, 5, 2, 2, 2, 3, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

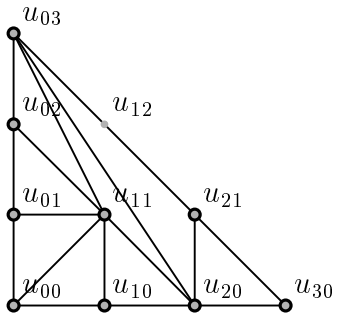
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 401. Vertex: $(6, 1, 5, 2, 2, 3, 2, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

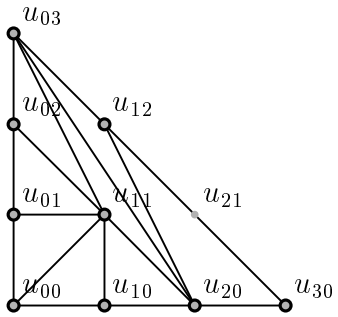
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 402. Vertex: $(6, 2, 5, 2, 2, 0, 2, 3, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

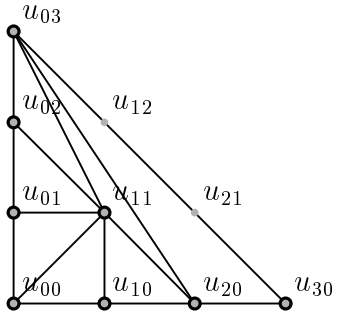
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 403. Vertex: $(6, 3, 5, 2, 2, 0, 2, 0, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

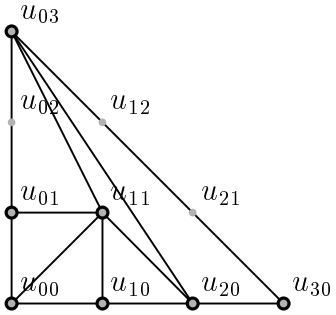
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 404. Vertex: $(6, 3, 5, 2, 2, 0, 3, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 3 \cdot u_{20} - u_{00} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

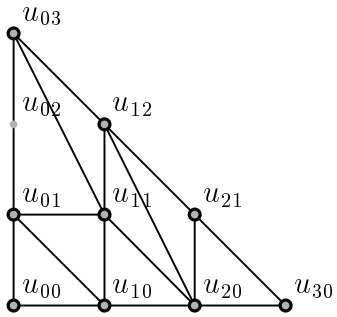
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

# 405. Vertex: $(6, 1, 4, 3, 1, 2, 4, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 1 | -6 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

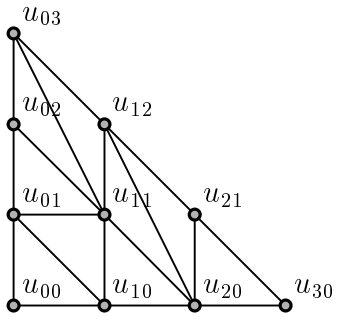
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 1 | 6 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 406. Vertex: $(6, 1, 4, 3, 1, 2, 3, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 1 | -6 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

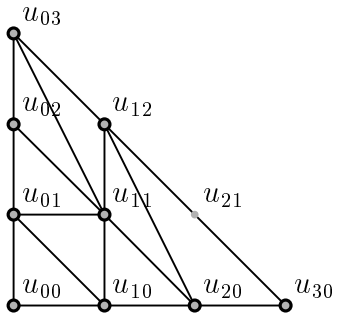
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 1 | 6 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 407. Vertex: $(6, 2, 4, 3, 1, 0, 3, 4, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 1 | -6 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

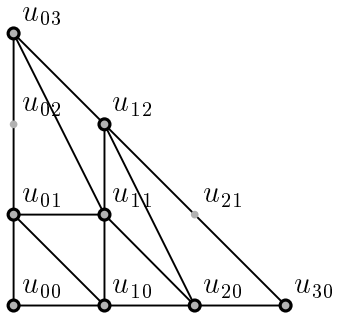
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 1 | 6 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 408. Vertex: $(6, 2, 4, 3, 1, 0, 4, 4, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 1 | -6 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

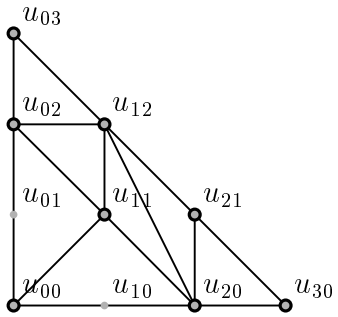
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 1 | 6 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 409. Vertex: $(6, 1, 5, 0, 4, 2, 0, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

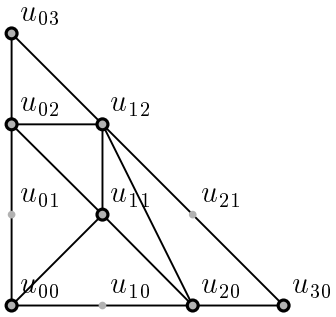
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

# 410. Vertex: $(6, 2, 5, 0, 4, 0, 0, 5, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

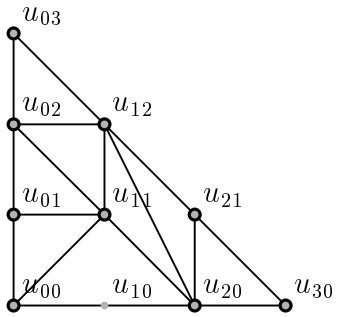
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

# 411. Vertex: $(6, 1, 5, 0, 3, 2, 2, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

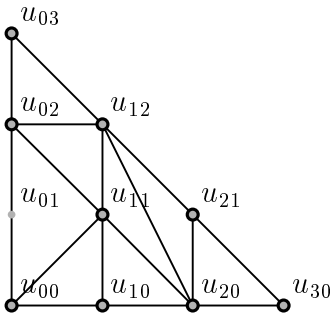
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 412. Vertex: $(6, 1, 4, 2, 3, 2, 0, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

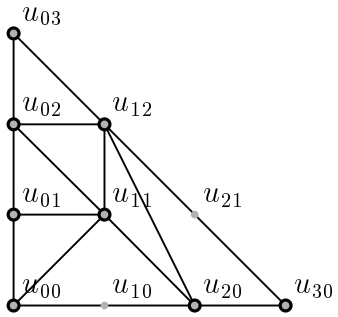
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 413. Vertex: $(6, 2, 5, 0, 3, 0, 2, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

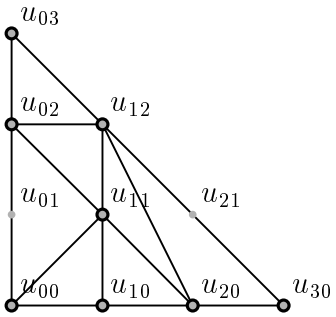
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 414. Vertex: $(6, 2, 4, 2, 3, 0, 0, 5, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

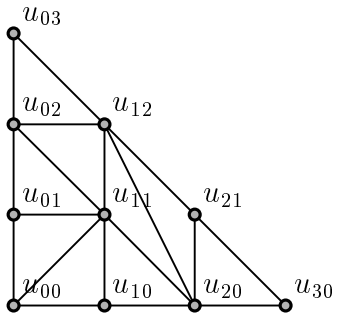
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 415. Vertex: $(6, 1, 4, 2, 2, 2, 2, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

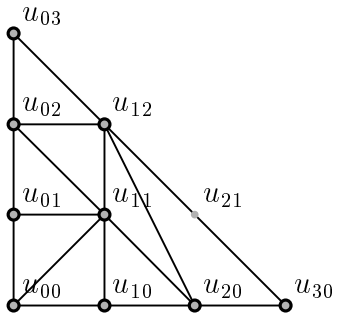
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 416. Vertex: $(6, 2, 4, 2, 2, 0, 2, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | -6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

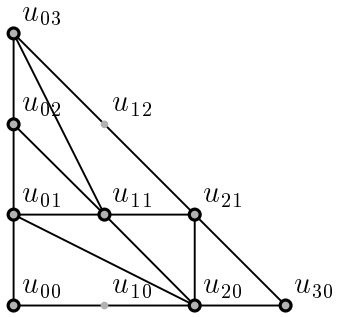
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 0 | 6 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 417. Vertex: $(6, 1, 5, 0, 2, 4, 4, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

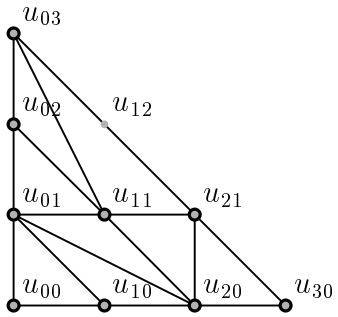
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 418. Vertex: $(6, 1, 4, 2, 1, 4, 4, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

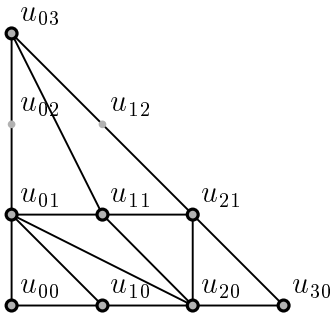
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 419. Vertex: $(6, 1, 4, 2, 1, 4, 5, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

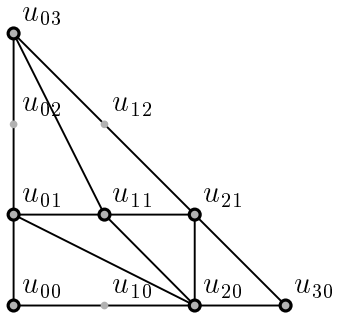
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 420. Vertex: $(6, 1, 5, 0, 2, 4, 5, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

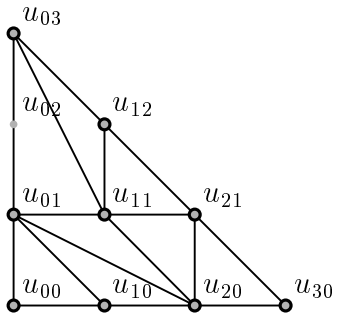
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 421. Vertex: $(6, 1, 4, 2, 1, 3, 5, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

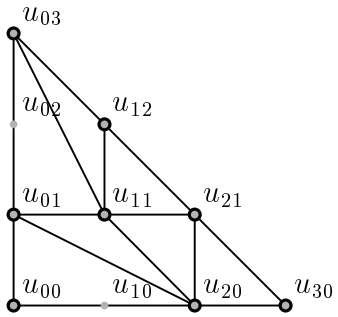
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 422. Vertex: $(6, 1, 5, 0, 2, 3, 5, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

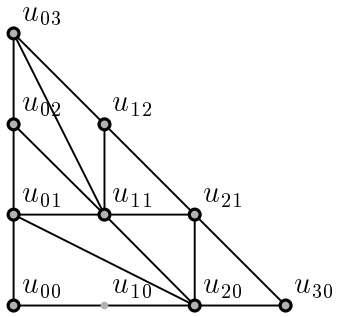
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 423. Vertex: $(6, 1, 5, 0, 2, 3, 4, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

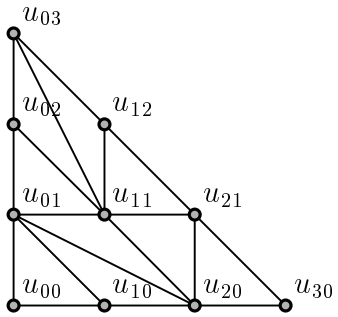
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 424. Vertex: $(6, 1, 4, 2, 1, 3, 4, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

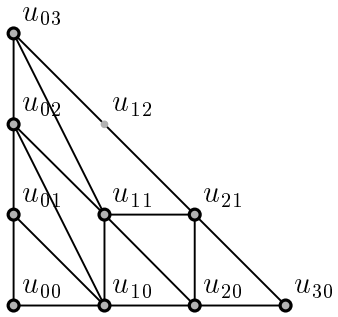
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 6 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 425. Vertex: $(6, 1, 3, 4, 1, 4, 2, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -6 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

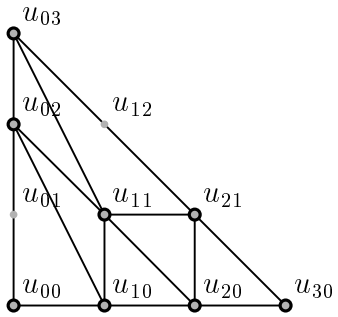
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 6 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 426. Vertex: $(6, 1, 3, 4, 2, 4, 0, 0, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -6 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

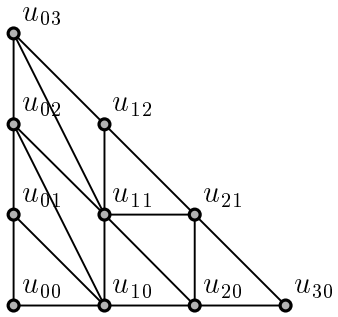
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 6 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 427. Vertex: $(6, 1, 3, 4, 1, 3, 2, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -6 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

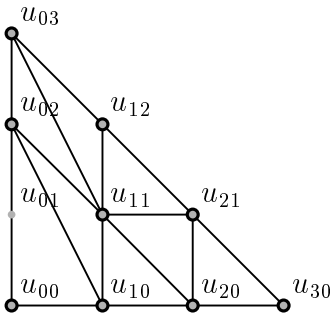
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 6 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 428. Vertex: $(6, 1, 3, 4, 2, 3, 0, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -6 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

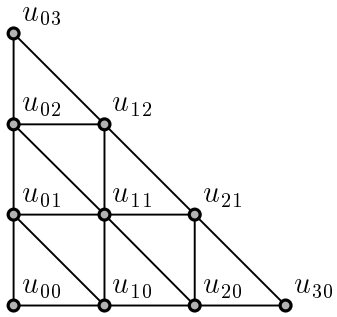
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 6 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 429. Vertex: $(6, 1, 3, 3, 1, 3, 3, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | -6 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

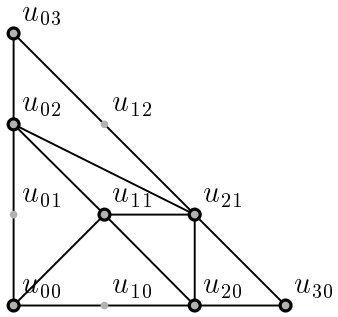
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | 6 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 430. Vertex: $(6, 1, 4, 0, 4, 5, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

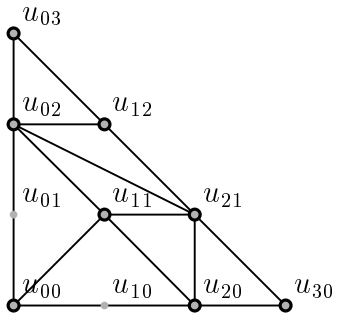
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

# 431. Vertex: $(6, 1, 4, 0, 4, 4, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

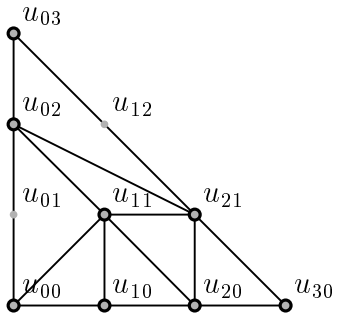
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

# 432. Vertex: $(6, 1, 3, 2, 3, 5, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

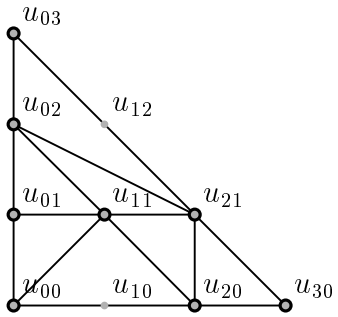
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 433. Vertex: $(6, 1, 4, 0, 3, 5, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

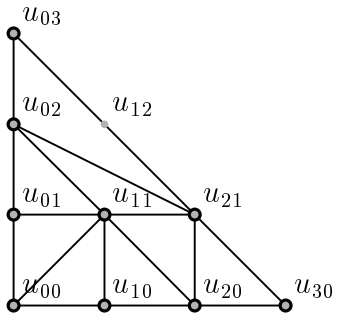
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 434. Vertex: $(6, 1, 3, 2, 2, 5, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

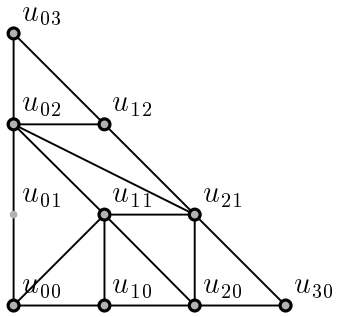
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 435. Vertex: $(6, 1, 3, 2, 3, 4, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

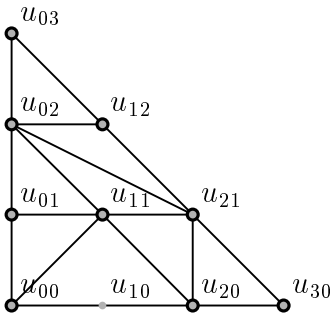
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 436. Vertex: $(6, 1, 4, 0, 3, 4, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

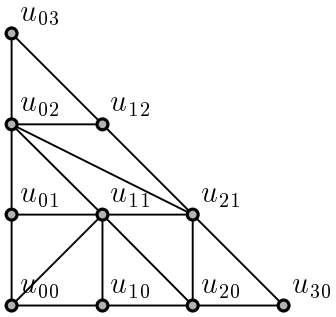
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 437. Vertex: $(6, 1, 3, 2, 2, 4, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

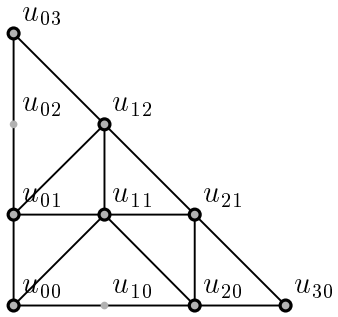
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 438. Vertex: $(6, 1, 4, 0, 3, 3, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -6 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

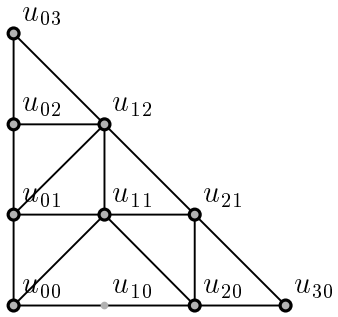
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 6 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 439. Vertex: $(6, 1, 4, 0, 3, 3, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -6 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

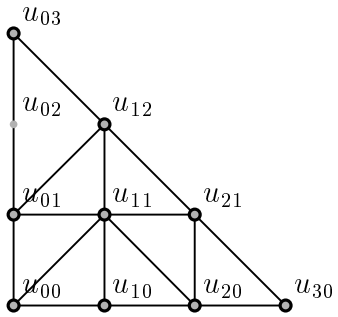
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 6 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 440. Vertex: $(6, 1, 3, 2, 2, 3, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -6 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

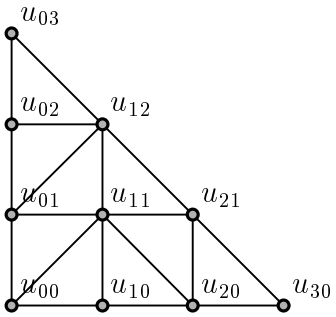
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 6 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 441. Vertex: $(6, 1, 3, 2, 2, 3, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -6 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

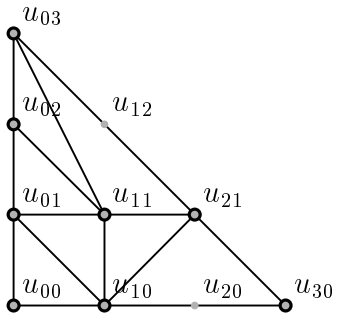
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 6 | 1 | |
| 0 | 1 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 442. Vertex: $(6, 2, 0, 5, 1, 5, 3, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

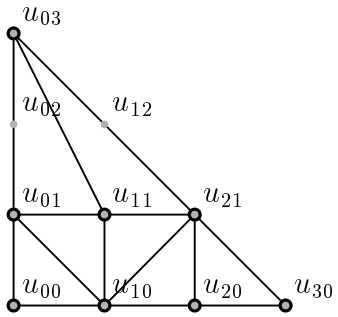
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 443. Vertex: $(6, 1, 2, 4, 1, 5, 4, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

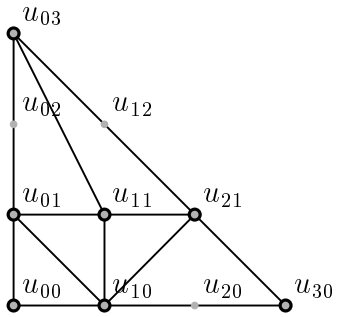
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 444. Vertex: $(6, 2, 0, 5, 1, 5, 4, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

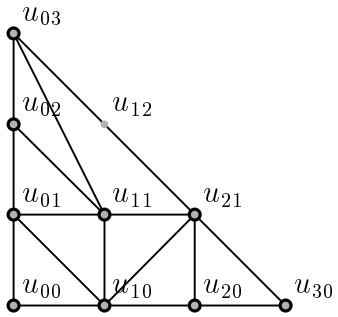
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 445. Vertex: $(6, 1, 2, 4, 1, 5, 3, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

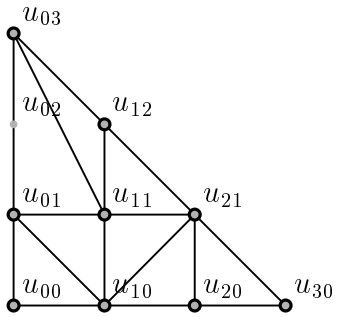
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 446. Vertex: $(6, 1, 2, 4, 1, 4, 4, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

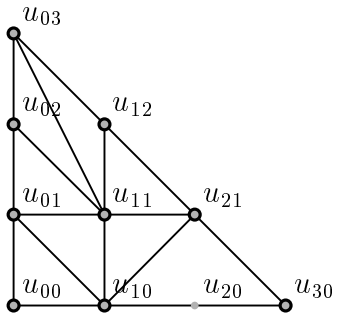
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 447. Vertex: $(6, 2, 0, 5, 1, 4, 3, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

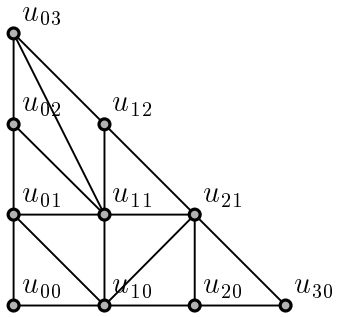
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 448. Vertex: $(6, 1, 2, 4, 1, 4, 3, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

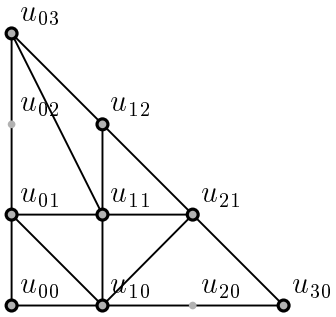
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 449. Vertex: $(6, 2, 0, 5, 1, 4, 4, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

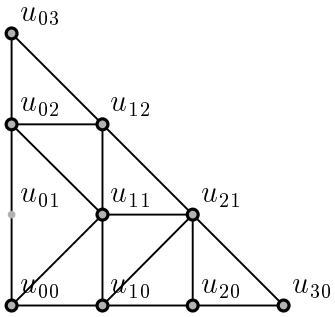
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 6 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 450. Vertex: $(6, 1, 2, 3, 3, 4, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

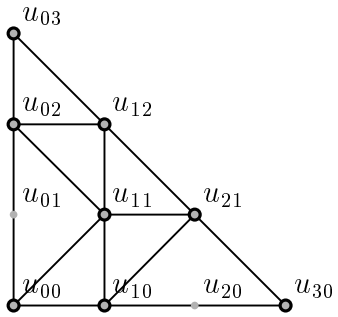
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 451. Vertex: $(6, 2, 0, 4, 3, 4, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

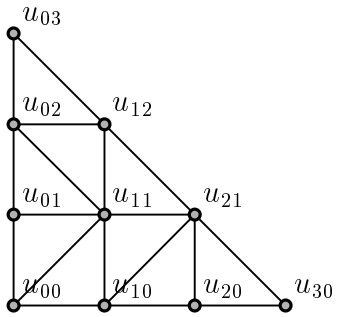
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 452. Vertex: $(6, 1, 2, 3, 2, 4, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

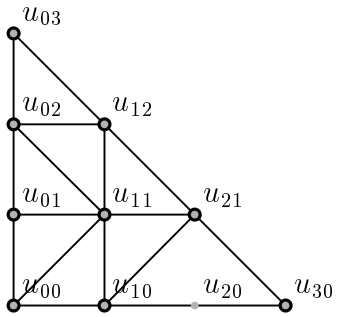
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 453. Vertex: $(6, 2, 0, 4, 2, 4, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -6 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

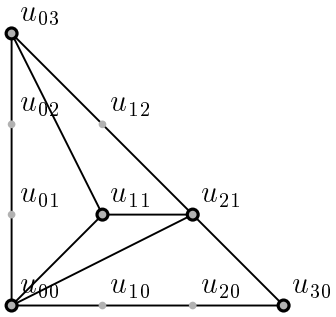
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 6 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 454. Vertex: $(6, 3, 0, 0, 7, 6, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

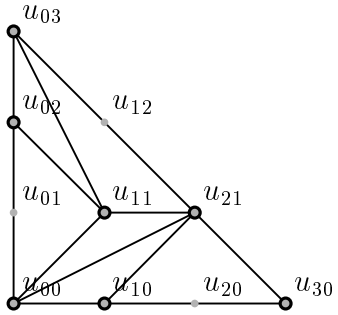
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
6 \cdot u_{11} &< 2 \cdot u_{00} + 3 \cdot u_{21} + u_{03}
\end{aligned}$$

# 455. Vertex: $(6, 2, 0, 3, 4, 6, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

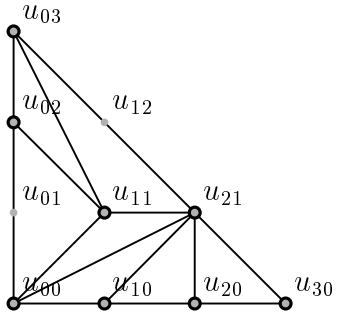
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 456. Vertex: $(6, 1, 2, 2, 4, 6, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

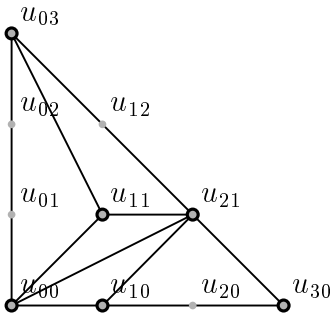
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 457. Vertex: $(6, 2, 0, 3, 5, 6, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

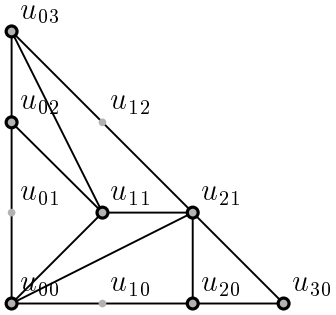
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
6 \cdot u_{11} &< 2 \cdot u_{00} + 3 \cdot u_{21} + u_{03}
\end{aligned}$$

# 458. Vertex: $(6, 1, 3, 0, 5, 6, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

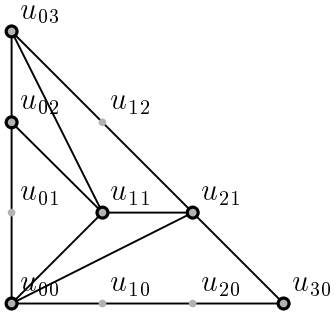
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 459. Vertex: $(6, 3, 0, 0, 6, 6, 0, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

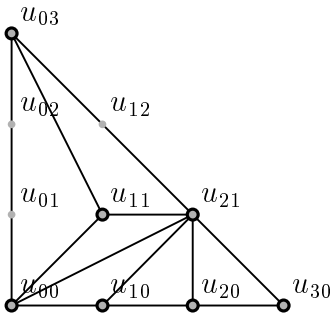
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 460. Vertex: $(6, 1, 2, 2, 5, 6, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

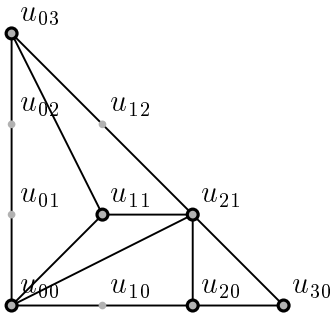
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
6 \cdot u_{11} &< 2 \cdot u_{00} + 3 \cdot u_{21} + u_{03}
\end{aligned}$$

# 461. Vertex: $(6, 1, 3, 0, 6, 6, 0, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

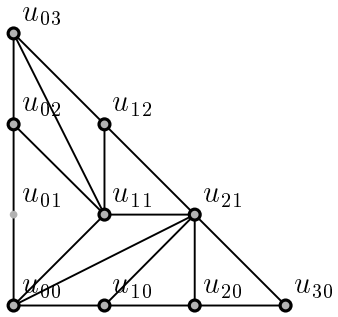
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
6 \cdot u_{11} &< 2 \cdot u_{00} + 3 \cdot u_{21} + u_{03}
\end{aligned}$$

# 462. Vertex: $(6, 1, 2, 2, 4, 5, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

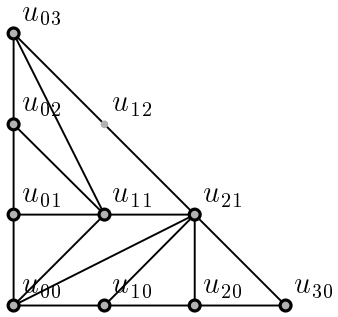
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 463. Vertex: $(6, 1, 2, 2, 3, 6, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

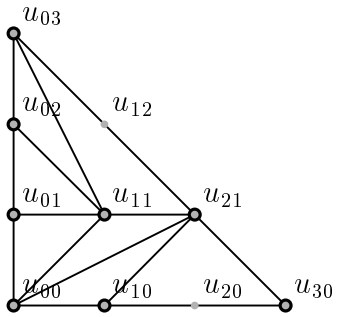
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 464. Vertex: $(6, 2, 0, 3, 3, 6, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

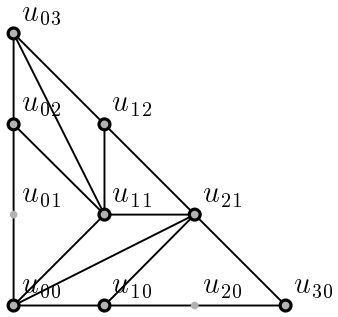
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 465. Vertex: $(6, 2, 0, 3, 4, 5, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

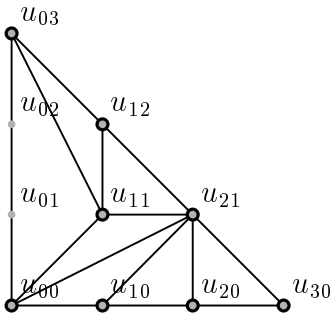
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 466. Vertex: $(6, 1, 2, 2, 5, 5, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

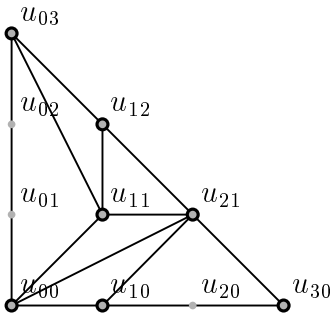
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 467. Vertex: $(6, 2, 0, 3, 5, 5, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

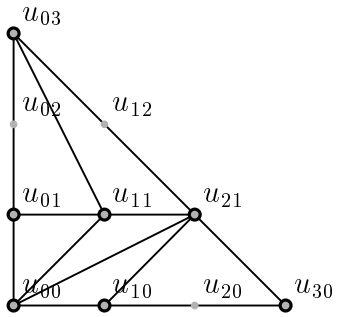
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 468. Vertex: $(6, 2, 0, 3, 3, 6, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

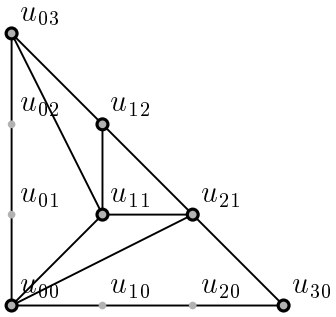
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 469. Vertex: $(6, 3, 0, 0, 7, 5, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

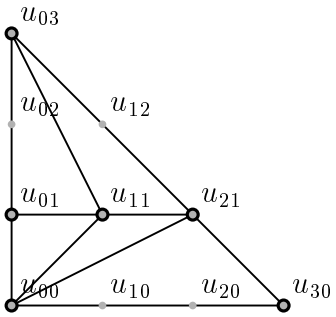
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 470. Vertex: $(6, 3, 0, 0, 5, 6, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

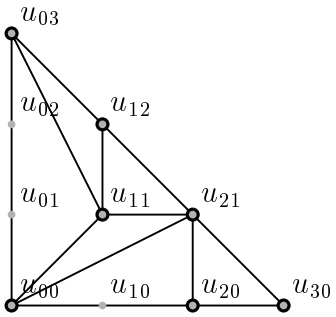
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 471. Vertex: $(6, 1, 3, 0, 6, 5, 0, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

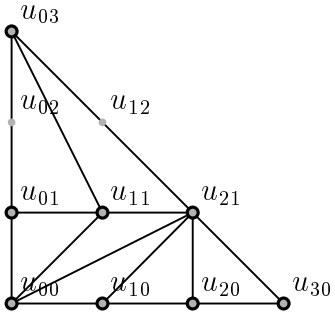
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} + u_{03} &< u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 472. Vertex: $(6, 1, 2, 2, 3, 6, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

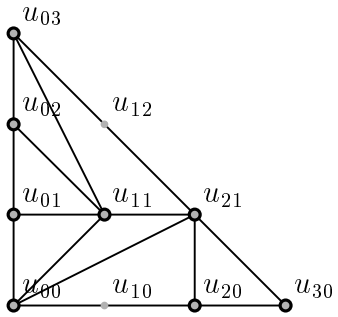
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 473. Vertex: $(6, 1, 3, 0, 4, 6, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

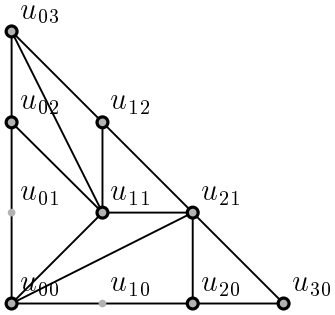
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 474. Vertex: $(6, 1, 3, 0, 5, 5, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

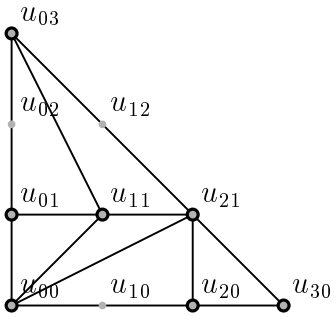
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 475. Vertex: $(6, 1, 3, 0, 4, 6, 3, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

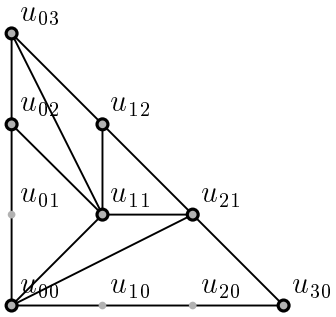
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
6 \cdot u_{11} &< 3 \cdot u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 476. Vertex: $(6, 3, 0, 0, 6, 5, 0, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

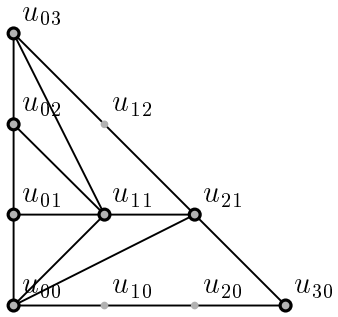
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 477. Vertex: $(6, 3, 0, 0, 5, 6, 2, 0, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

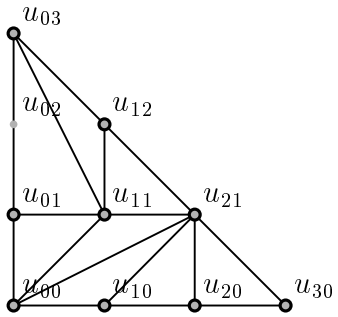
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 478. Vertex: $(6, 1, 2, 2, 3, 5, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

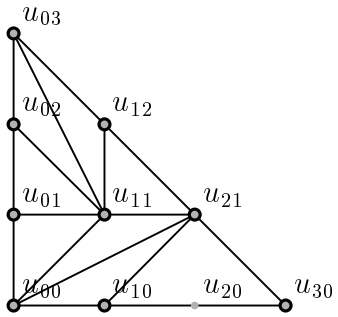
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 479. Vertex: $(6, 2, 0, 3, 3, 5, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

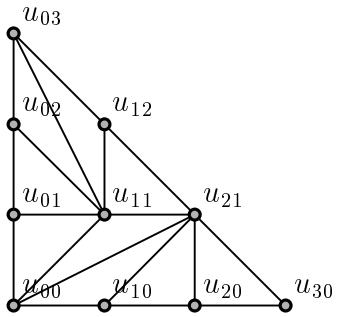
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 480. Vertex: $(6, 1, 2, 2, 3, 5, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

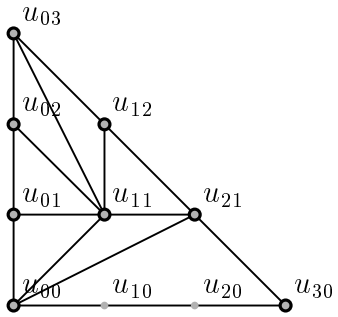
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 481. Vertex: $(6, 3, 0, 0, 5, 5, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

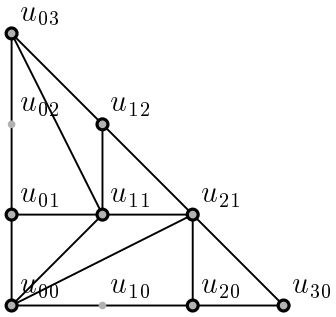
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 482. Vertex: $(6, 1, 3, 0, 4, 5, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

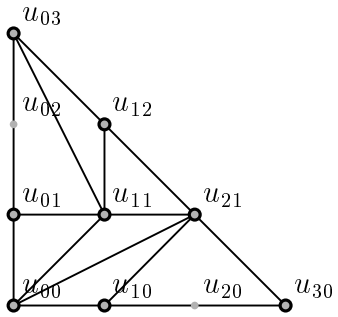
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 483. Vertex: $(6, 2, 0, 3, 3, 5, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

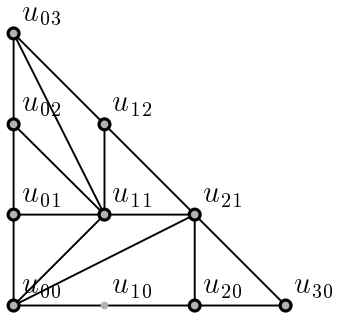
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 484. Vertex: $(6, 1, 3, 0, 4, 5, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

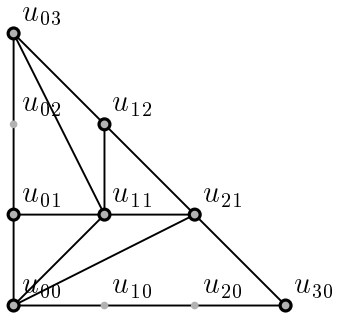
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\ 2 \cdot u_{12} &< u_{21} + u_{03} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ 3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\ 2 \cdot u_{02} &< u_{01} + u_{03} \\ u_{11} + u_{03} &< u_{12} + u_{02} \end{aligned}$$

# 485. Vertex: $(6, 3, 0, 0, 5, 5, 3, 2, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

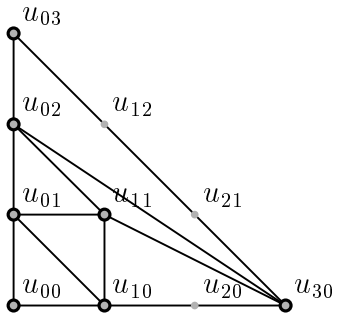
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 6 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 486. Vertex: $(5, 6, 0, 4, 1, 0, 3, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

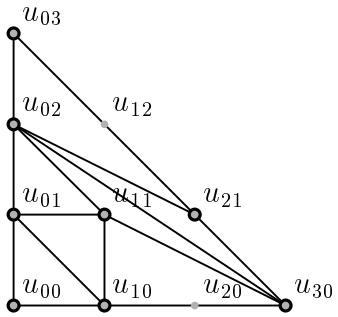
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01}
\end{aligned}$$

# 487. Vertex: $(5, 4, 0, 4, 1, 3, 3, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

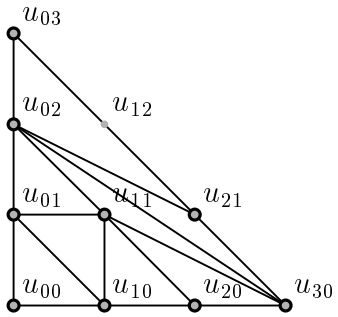
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01}
\end{aligned}$$

# 488. Vertex: $(5, 3, 2, 3, 1, 3, 3, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

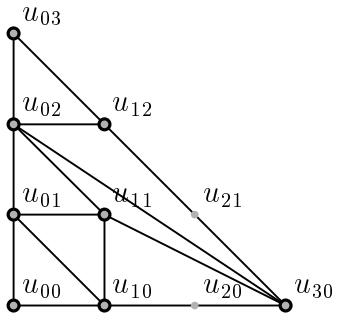
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

# 489. Vertex: $(5, 5, 0, 4, 1, 0, 3, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

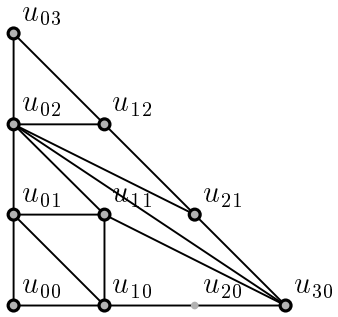
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01}
\end{aligned}$$

# 490. Vertex: $(5, 4, 0, 4, 1, 2, 3, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

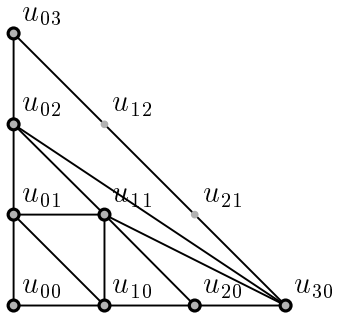
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{10} &< u_{30} + 2 \cdot u_{01}
\end{aligned}$$

# 491. Vertex: $(5, 5, 2, 3, 1, 0, 3, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

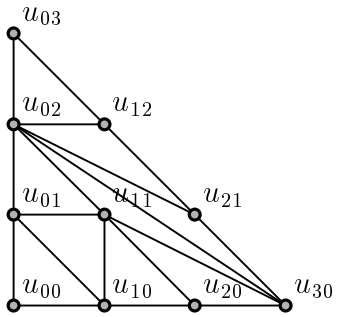
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

# 492. Vertex: $(5, 3, 2, 3, 1, 2, 3, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

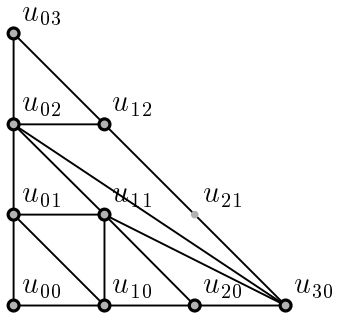
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

# 493. Vertex: $(5, 4, 2, 3, 1, 0, 3, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - u_{10} - u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

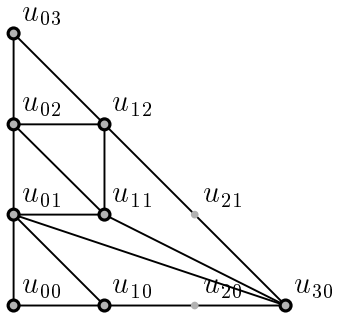
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

# 494. Vertex: $(5, 5, 0, 3, 1, 0, 5, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

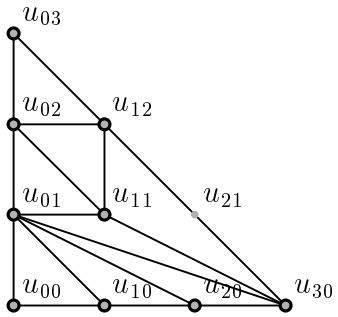
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02}
\end{aligned}$$

# 495. Vertex: $(5, 4, 2, 2, 1, 0, 5, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

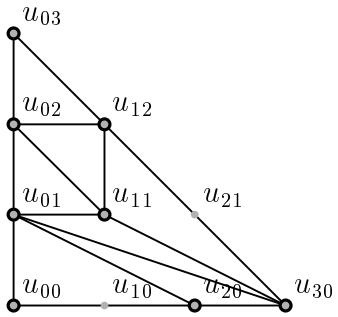
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02}
\end{aligned}$$

# 496. Vertex: $(5, 4, 3, 0, 2, 0, 5, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

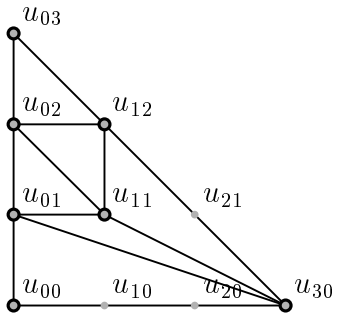
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02}
\end{aligned}$$

# 497. Vertex: $(5, 6, 0, 0, 3, 0, 5, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

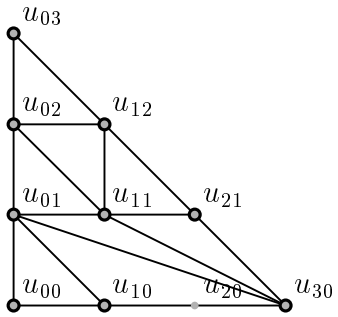
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{11} + u_{12} &< u_{30} + 2 \cdot u_{02}
\end{aligned}$$

# 498. Vertex: $(5, 4, 0, 3, 1, 2, 5, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

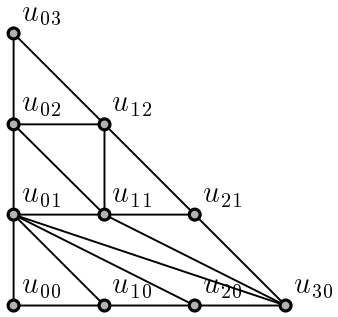
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 499. Vertex: $(5, 3, 2, 2, 1, 2, 5, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

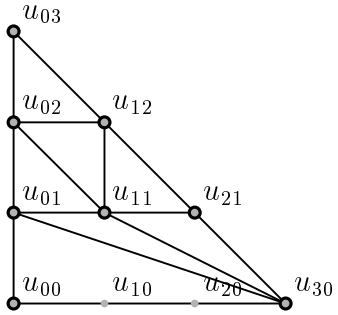
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 500. Vertex: $(5, 5, 0, 0, 3, 2, 5, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

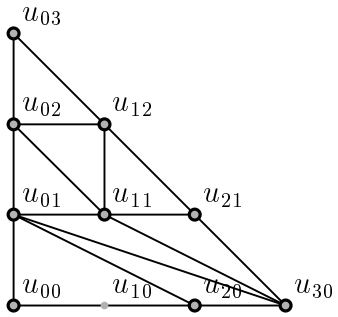
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 501. Vertex: $(5, 3, 3, 0, 2, 2, 5, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{30} - 3 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

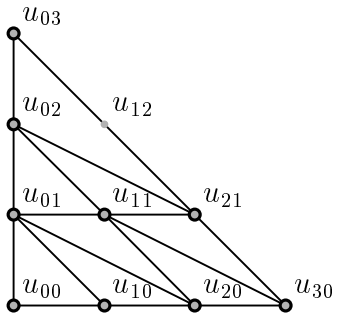
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 502. Vertex: $(5, 2, 3, 2, 1, 4, 4, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | -7 | 1 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

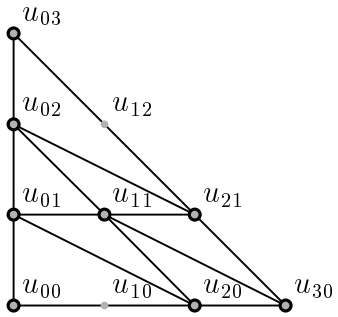
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 5 | 1 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 503. Vertex: $(5, 2, 4, 0, 2, 4, 4, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | -7 | 1 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

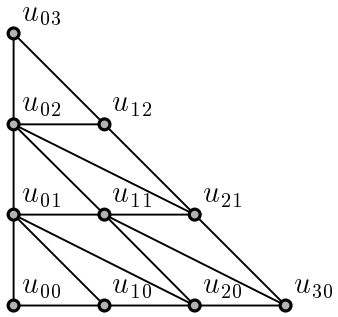
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 5 | 1 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 504. Vertex: $(5, 2, 3, 2, 1, 3, 4, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | -7 | 1 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

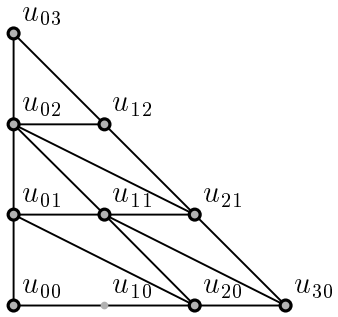
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 5 | 1 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 505. Vertex: $(5, 2, 4, 0, 2, 3, 4, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | -7 | 1 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

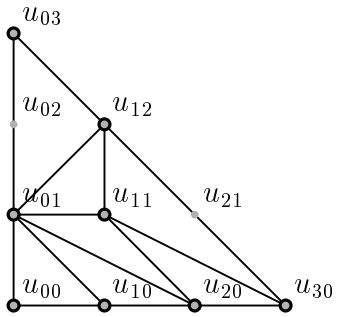
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 5 | 1 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 506. Vertex: $(5, 3, 3, 2, 1, 0, 6, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

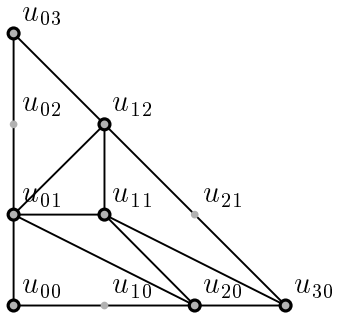
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 507. Vertex: $(5, 3, 4, 0, 2, 0, 6, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

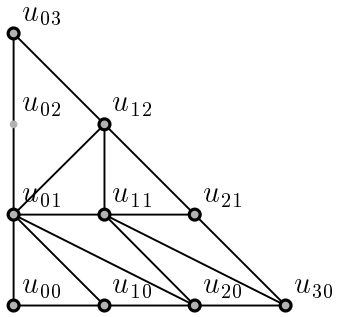
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 508. Vertex: $(5, 2, 3, 2, 1, 2, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

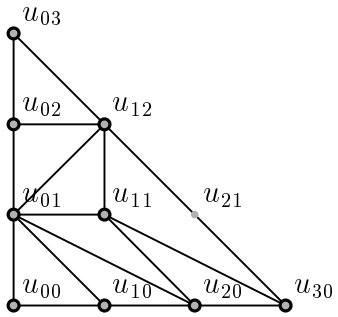
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 509. Vertex: $(5, 3, 3, 2, 1, 0, 5, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

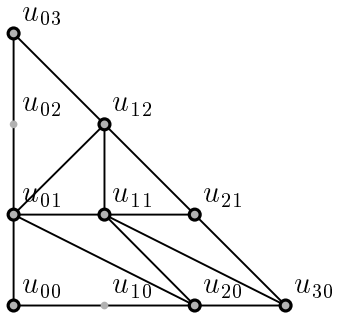
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 510. Vertex: $(5, 2, 4, 0, 2, 2, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

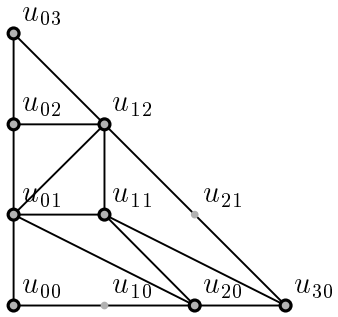
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 511. Vertex: $(5, 3, 4, 0, 2, 0, 5, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

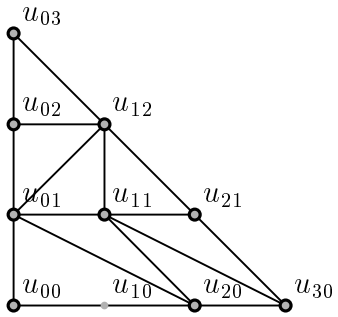
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
2 \cdot u_{11} + u_{30} &< 2 \cdot u_{20} + u_{12}
\end{aligned}$$

# 512. Vertex: $(5, 2, 4, 0, 2, 2, 5, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

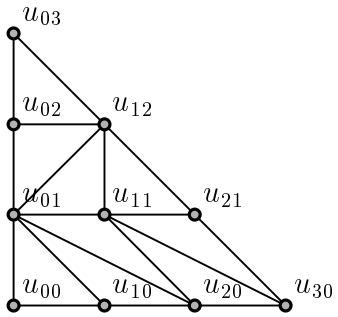
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 513. Vertex: $(5, 2, 3, 2, 1, 2, 5, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - u_{20} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -7 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

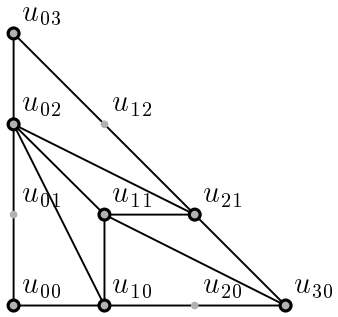
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 5 | 0 | |
| 0 | 0 | 0 | 1 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 514. Vertex: $(5, 3, 0, 5, 2, 4, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

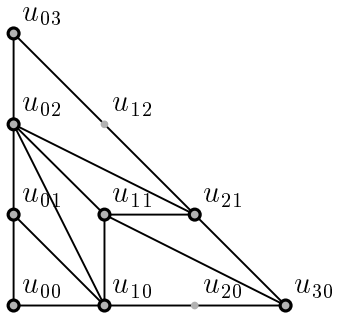
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 515. Vertex: $(5, 3, 0, 5, 1, 4, 2, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

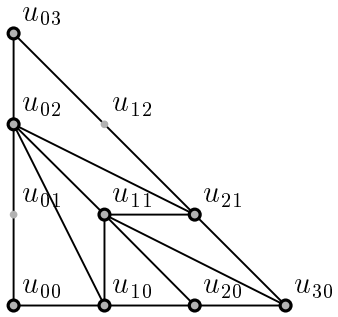
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 516. Vertex: $(5, 2, 2, 4, 2, 4, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

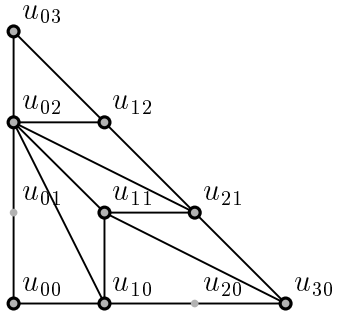
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 517. Vertex: $(5, 3, 0, 5, 2, 3, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

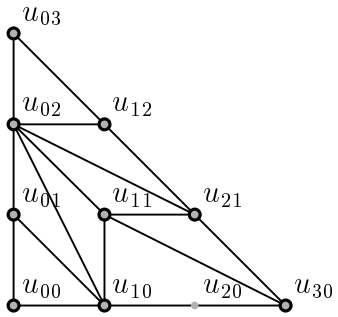
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 518. Vertex: $(5, 3, 0, 5, 1, 3, 2, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

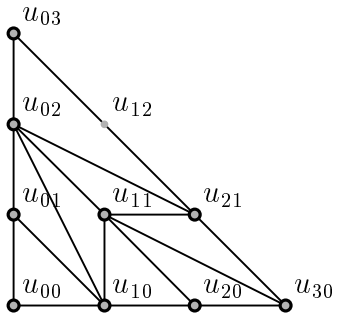
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
2 \cdot u_{11} + u_{30} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 519. Vertex: $(5, 2, 2, 4, 1, 4, 2, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

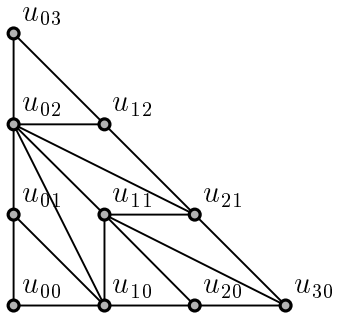
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 520. Vertex: $(5, 2, 2, 4, 1, 3, 2, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

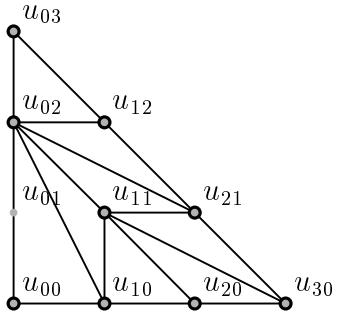
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 521. Vertex: $(5, 2, 2, 4, 2, 3, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{30} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

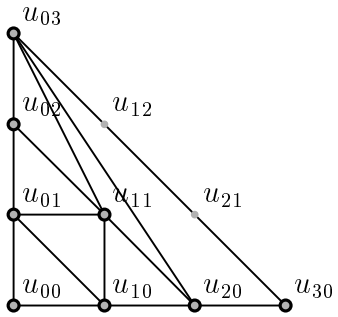
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 2 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
u_{11} + u_{30} &< u_{20} + u_{21}
\end{aligned}$$

# 522. Vertex: $(5, 3, 5, 3, 1, 0, 3, 0, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

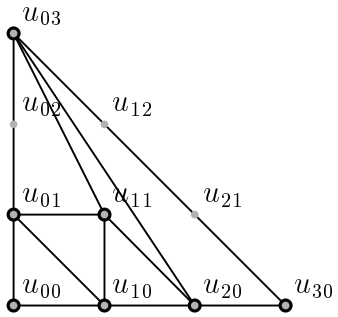
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

# 523. Vertex: $(5, 3, 5, 3, 1, 0, 4, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

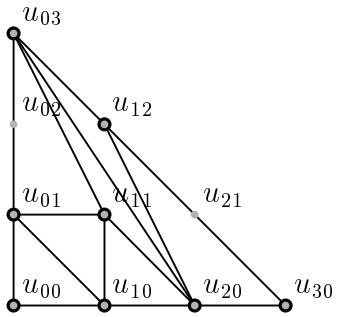
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03}
\end{aligned}$$

# 524. Vertex: $(5, 2, 5, 3, 1, 0, 4, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

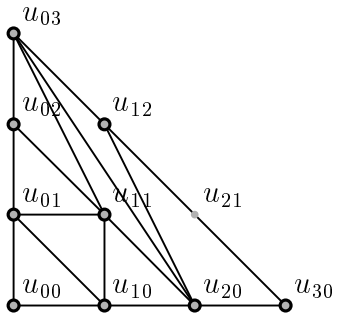
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03}
\end{aligned}$$

# 525. Vertex: $(5, 2, 5, 3, 1, 0, 3, 3, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

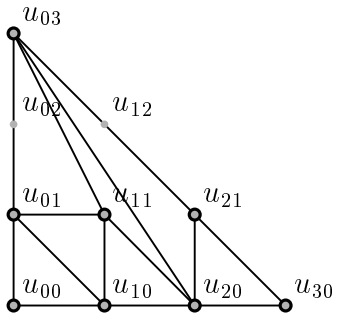
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

# 526. Vertex: $(5, 1, 5, 3, 1, 3, 4, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

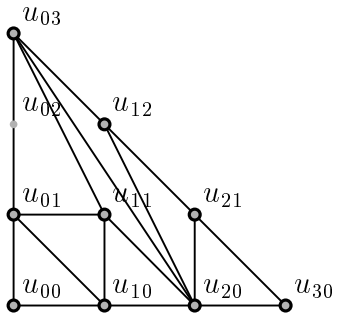
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03}
\end{aligned}$$

# 527. Vertex: $(5, 1, 5, 3, 1, 2, 4, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

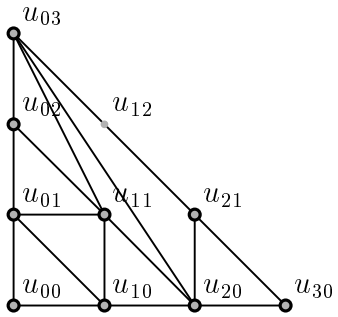
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{11} + u_{01} &< 2 \cdot u_{10} + u_{03}
\end{aligned}$$

# 528. Vertex: $(5, 1, 5, 3, 1, 3, 3, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

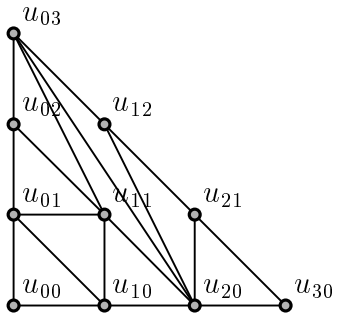
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

# 529. Vertex: $(5, 1, 5, 3, 1, 2, 3, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

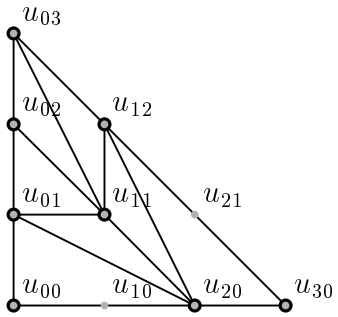
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

# 530. Vertex: $(5, 2, 6, 0, 2, 0, 4, 4, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | -7 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

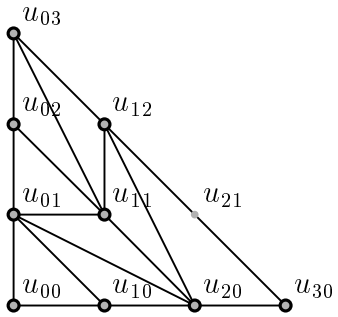
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | 5 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 531. Vertex: $(5, 2, 5, 2, 1, 0, 4, 4, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | -7 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

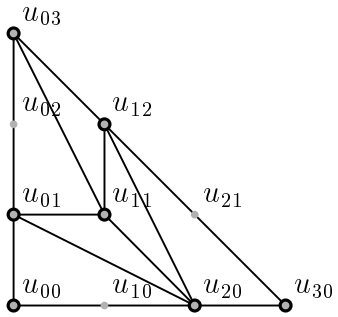
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | 5 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 532. Vertex: $(5, 2, 6, 0, 2, 0, 5, 4, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | -7 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

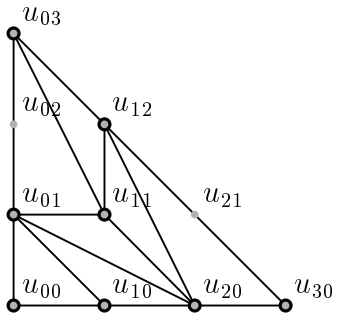
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | 5 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 533. Vertex: $(5, 2, 5, 2, 1, 0, 5, 4, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | -7 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

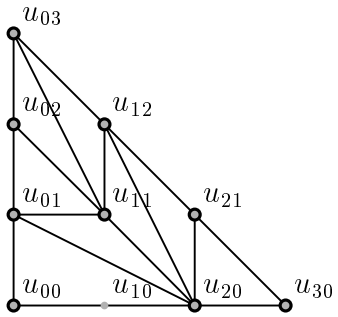
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | 5 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 534. Vertex: $(5, 1, 6, 0, 2, 2, 4, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | -7 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

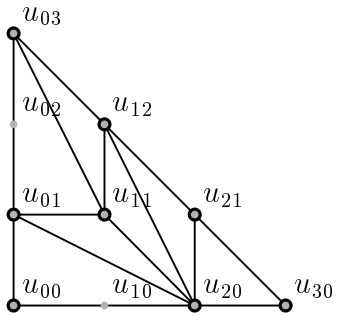
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | 5 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 535. Vertex: $(5, 1, 6, 0, 2, 2, 5, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | -7 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

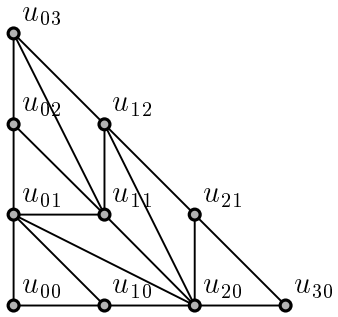
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | 5 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 536. Vertex: $(5, 1, 5, 2, 1, 2, 4, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | -7 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

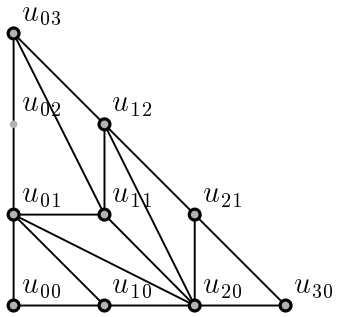
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | 5 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 537. Vertex: $(5, 1, 5, 2, 1, 2, 5, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - u_{12} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | -7 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

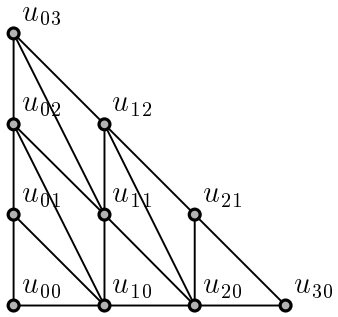
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 1 | | |
| 1 | 2 | 5 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 538. Vertex: $(5, 1, 4, 4, 1, 2, 2, 3, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - u_{12} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - u_{12} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

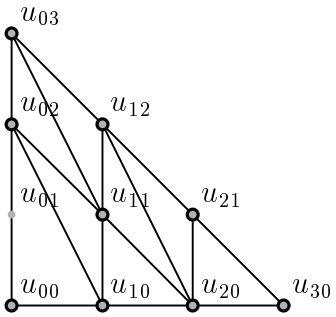
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 539. Vertex: $(5, 1, 4, 4, 2, 2, 0, 3, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - u_{12} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - u_{12} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

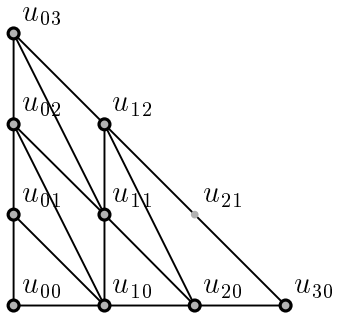
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 540. Vertex: $(5, 2, 4, 4, 1, 0, 2, 4, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - u_{12} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - u_{12} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

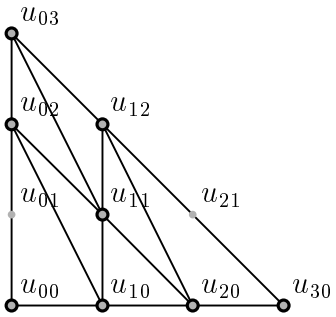
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 541. Vertex: $(5, 2, 4, 4, 2, 0, 0, 4, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - u_{12} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - u_{12} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

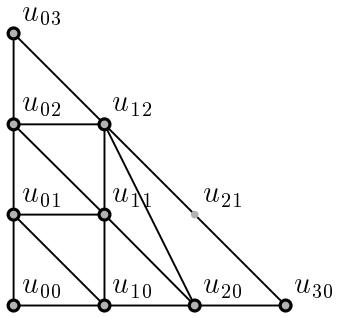
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 542. Vertex: $(5, 2, 4, 3, 1, 0, 3, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

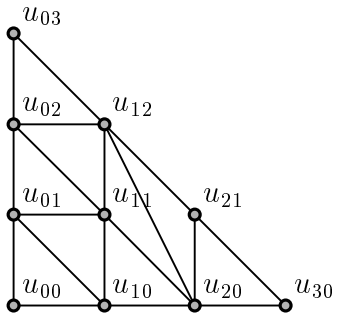
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 543. Vertex: $(5, 1, 4, 3, 1, 2, 3, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

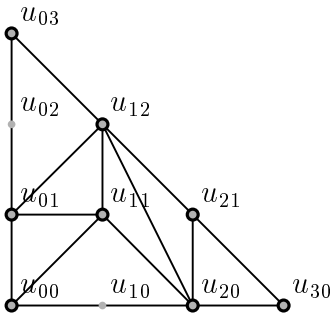
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 544. Vertex: $(5, 1, 5, 0, 3, 2, 4, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

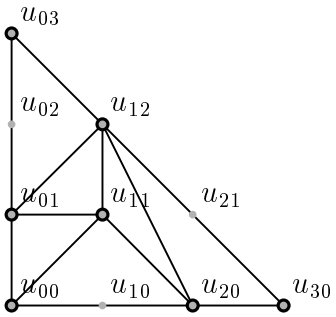
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 545. Vertex: $(5, 2, 5, 0, 3, 0, 4, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

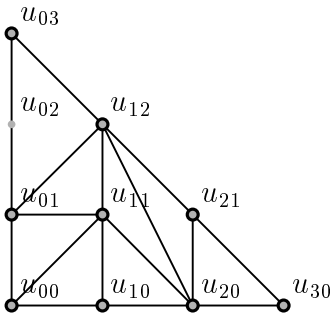
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 546. Vertex: $(5, 1, 4, 2, 2, 2, 4, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

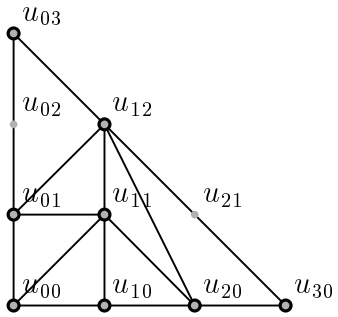
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12}
\end{aligned}$$

# 547. Vertex: $(5, 2, 4, 2, 2, 0, 4, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

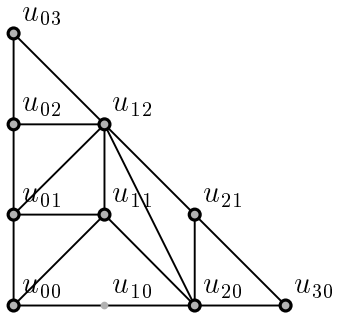
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12}
\end{aligned}$$

# 548. Vertex: $(5, 1, 5, 0, 3, 2, 3, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

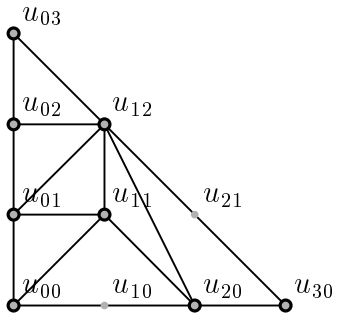
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 549. Vertex: $(5, 2, 5, 0, 3, 0, 3, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

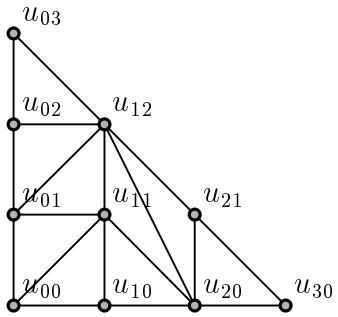
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

# 550. Vertex: $(5, 1, 4, 2, 2, 2, 3, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

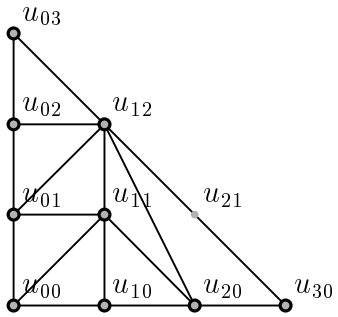
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12}
\end{aligned}$$

# 551. Vertex: $(5, 2, 4, 2, 2, 0, 3, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | -7 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

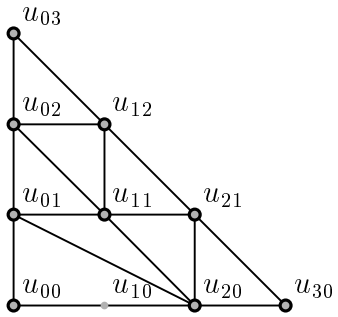
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 1 | 5 | 0 | |
| 0 | 1 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12}
\end{aligned}$$

# 552. Vertex: $(5, 1, 5, 0, 2, 3, 4, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | -7 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

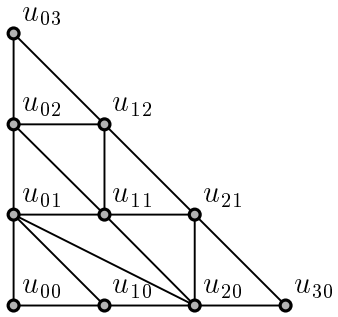
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | 5 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 553. Vertex: $(5, 1, 4, 2, 1, 3, 4, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | -7 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

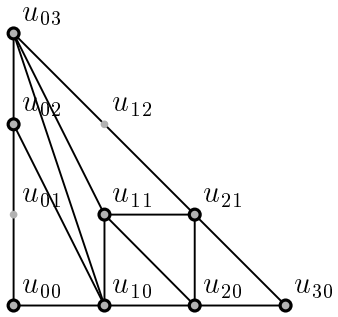
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 2 | 5 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 554. Vertex: $(5, 1, 3, 5, 2, 4, 0, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

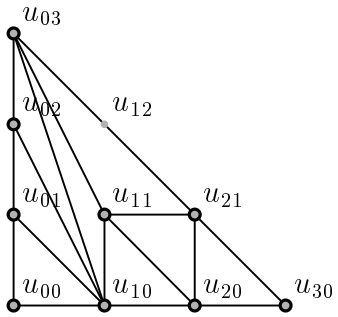
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03}
\end{aligned}$$

# 555. Vertex: $(5, 1, 3, 5, 1, 4, 2, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

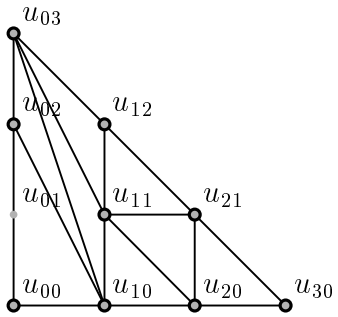
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03}
\end{aligned}$$

# 556. Vertex: $(5, 1, 3, 5, 2, 3, 0, 2, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

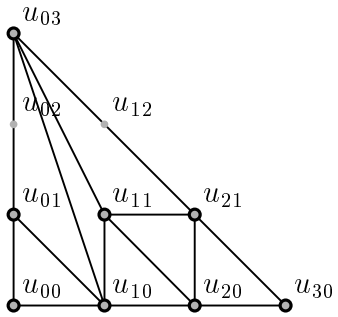
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 557. Vertex: $(5, 1, 3, 5, 1, 4, 3, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

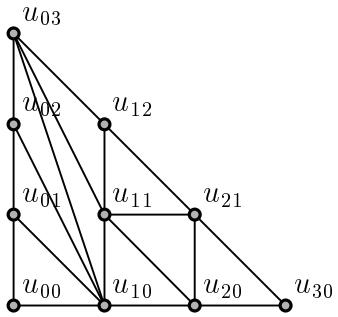
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03}
\end{aligned}$$

# 558. Vertex: $(5, 1, 3, 5, 1, 3, 2, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

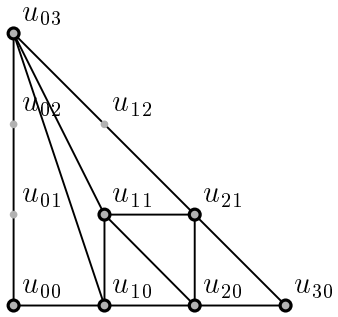
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 559. Vertex: $(5, 1, 3, 5, 3, 4, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

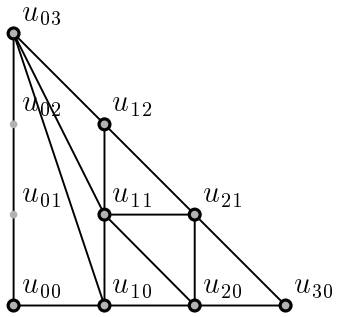
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{21} &< 2 \cdot u_{20} + u_{03}
\end{aligned}$$

# 560. Vertex: $(5, 1, 3, 5, 3, 3, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

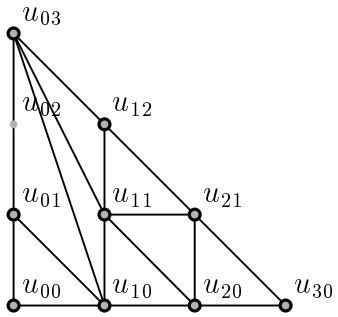
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 561. Vertex: $(5, 1, 3, 5, 1, 3, 3, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 3 \cdot u_{10} - u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

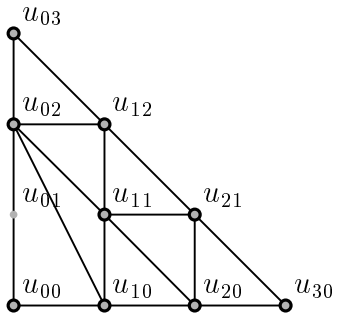
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 3 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 562. Vertex: $(5, 1, 3, 4, 2, 3, 0, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

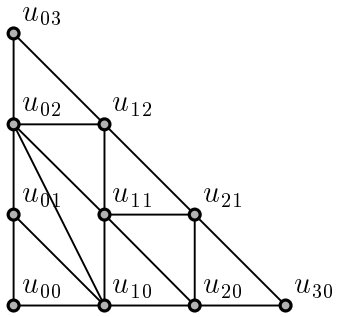
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 563. Vertex: $(5, 1, 3, 4, 1, 3, 2, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

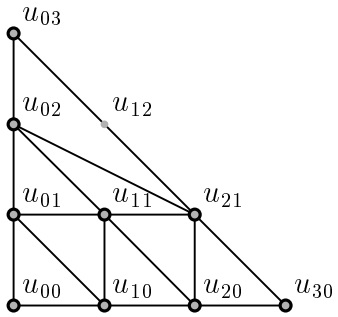
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 0 | 2 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 564. Vertex: $(5, 1, 3, 3, 1, 5, 3, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | -7 | 2 | |
| 0 | 0 | 1 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

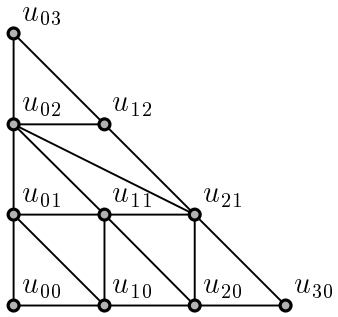
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | 5 | 2 | |
| 0 | 0 | 1 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 565. Vertex: $(5, 1, 3, 3, 1, 4, 3, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | -7 | 2 | |
| 0 | 0 | 1 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

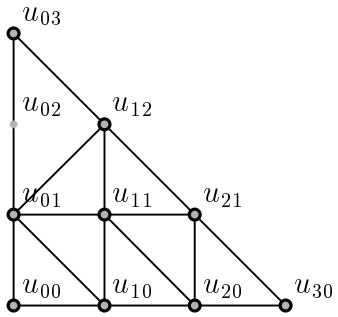
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | 5 | 2 | |
| 0 | 0 | 1 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 566. Vertex: $(5, 1, 3, 3, 1, 3, 5, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - u_{10} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - u_{10} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -7 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

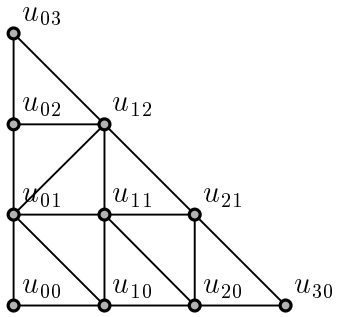
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 5 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 567. Vertex: $(5, 1, 3, 3, 1, 3, 4, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - u_{10} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - u_{10} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -7 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

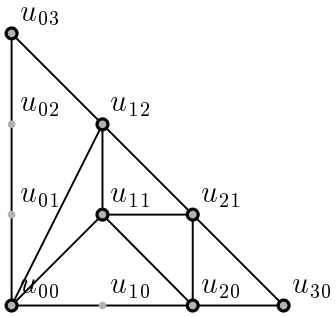
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 5 | 1 | |
| 0 | 0 | 1 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 568. Vertex: $(5, 1, 4, 0, 6, 3, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

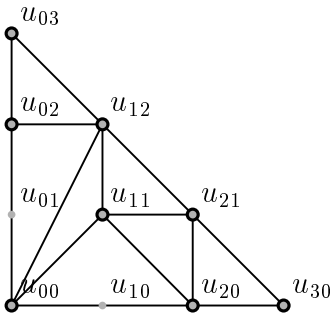
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 569. Vertex: $(5, 1, 4, 0, 5, 3, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

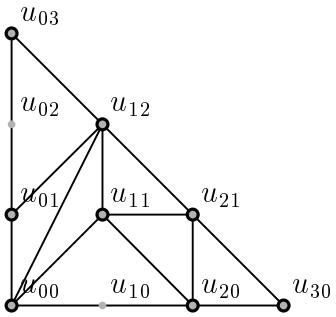
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 570. Vertex: $(5, 1, 4, 0, 4, 3, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

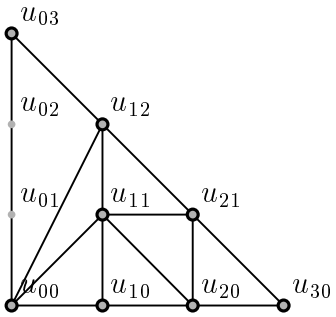
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 571. Vertex: $(5, 1, 3, 2, 5, 3, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

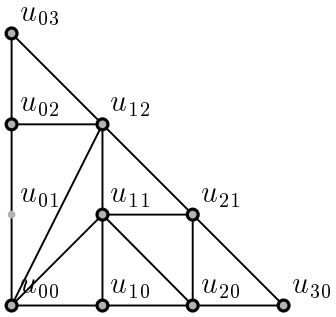
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 572. Vertex: $(5, 1, 3, 2, 4, 3, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

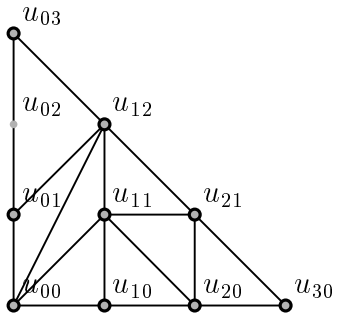
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 573. Vertex: $(5, 1, 3, 2, 3, 3, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

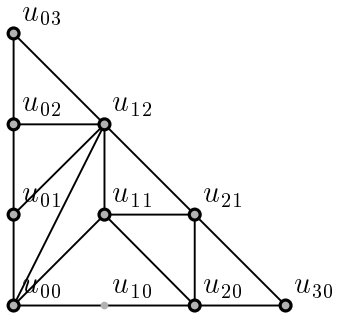
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 574. Vertex: $(5, 1, 4, 0, 4, 3, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

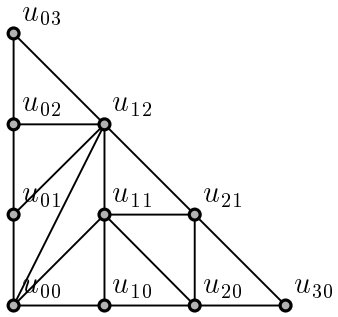
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 575. Vertex: $(5, 1, 3, 2, 3, 3, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -7 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

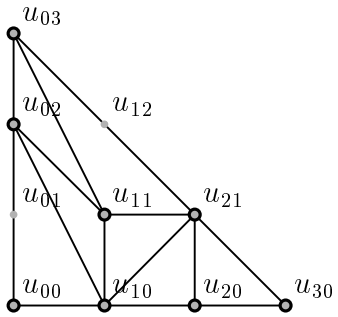
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 5 | 1 | |
| 0 | 2 | 0 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

# 576. Vertex: $(5, 1, 2, 5, 2, 5, 0, 0, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -7 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

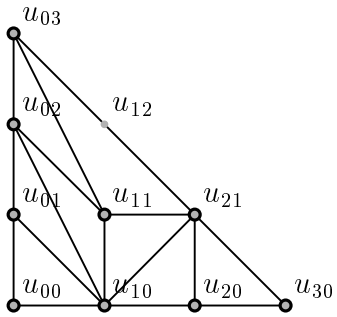
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 5 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 577. Vertex: $(5, 1, 2, 5, 1, 5, 2, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -7 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

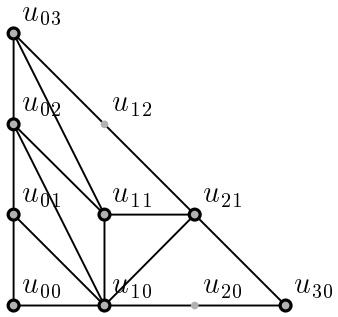
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 5 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 578. Vertex: $(5, 2, 0, 6, 1, 5, 2, 0, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -7 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

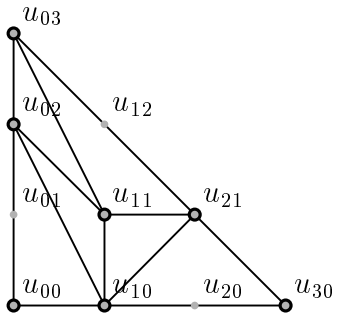
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 5 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 579. Vertex: $(5, 2, 0, 6, 2, 5, 0, 0, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -7 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

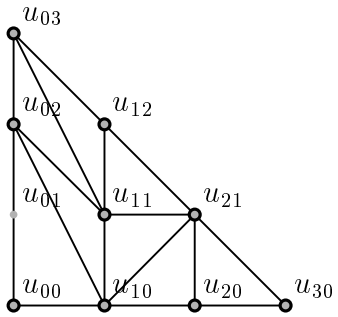
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 5 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
2 \cdot u_{11} + u_{03} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 580. Vertex: $(5, 1, 2, 5, 2, 4, 0, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -7 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

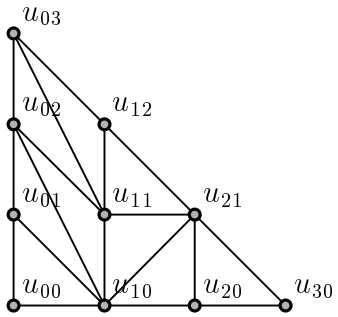
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 5 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 581. Vertex: $(5, 1, 2, 5, 1, 4, 2, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -7 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

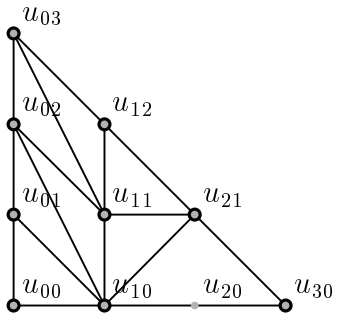
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 5 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 582. Vertex: $(5, 2, 0, 6, 1, 4, 2, 2, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -7 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

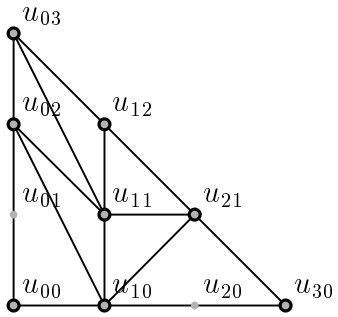
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 5 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 583. Vertex: $(5, 2, 0, 6, 2, 4, 0, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{02} - u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -7 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

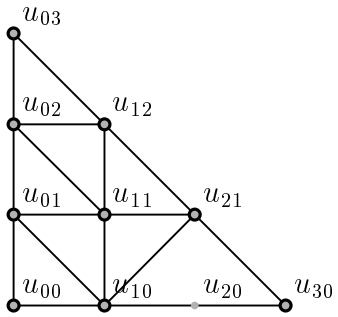
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 5 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
u_{11} + u_{03} &< u_{12} + u_{02}
\end{aligned}$$

# 584. Vertex: $(5, 2, 0, 5, 1, 4, 3, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | -7 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

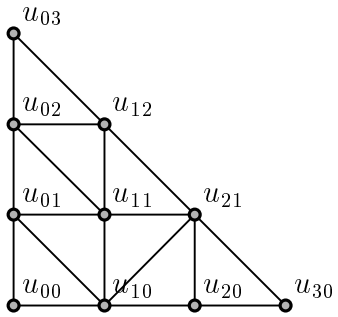
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | 5 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 585. Vertex: $(5, 1, 2, 4, 1, 4, 3, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | -7 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

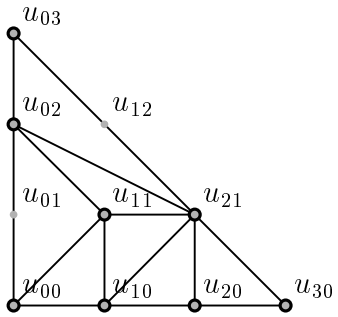
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 1 | 5 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 586. Vertex: $(5, 1, 2, 3, 3, 6, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

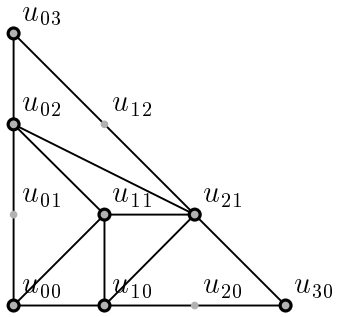
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 587. Vertex: $(5, 2, 0, 4, 3, 6, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

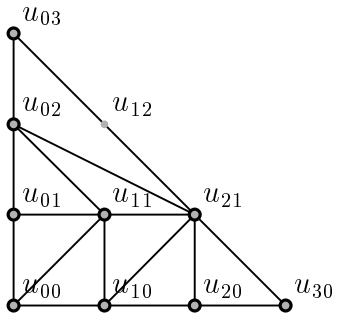
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 588. Vertex: $(5, 1, 2, 3, 2, 6, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

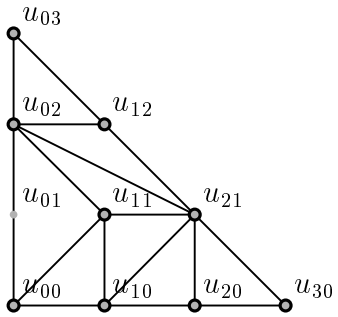
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 589. Vertex: $(5, 1, 2, 3, 3, 5, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

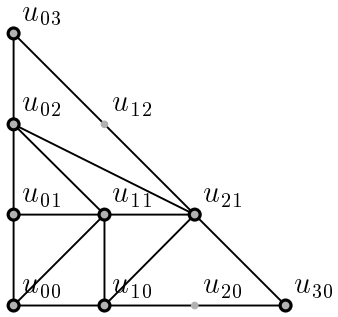
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 590. Vertex: $(5, 2, 0, 4, 2, 6, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

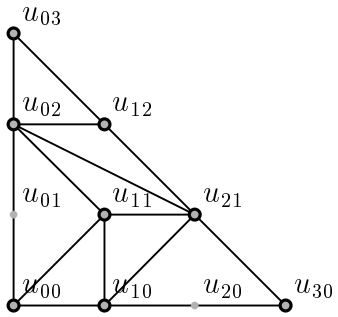
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 591. Vertex: $(5, 2, 0, 4, 3, 5, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

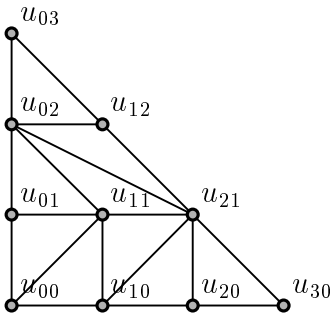
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 592. Vertex: $(5, 1, 2, 3, 2, 5, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

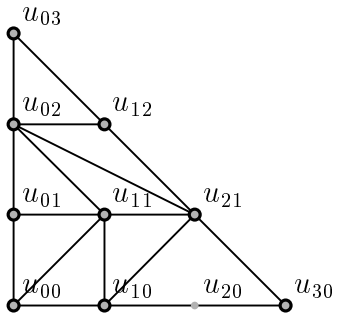
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 593. Vertex: $(5, 2, 0, 4, 2, 5, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

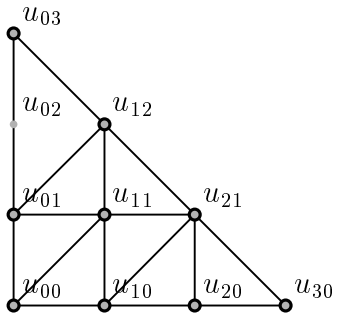
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 594. Vertex: $(5, 1, 2, 3, 2, 4, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

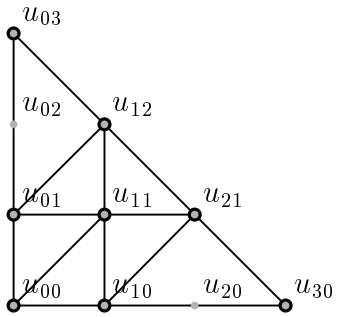
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 595. Vertex: $(5, 2, 0, 4, 2, 4, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

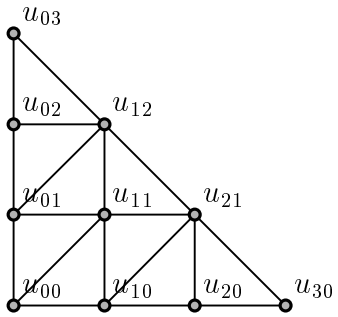
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 596. Vertex: $(5, 1, 2, 3, 2, 4, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

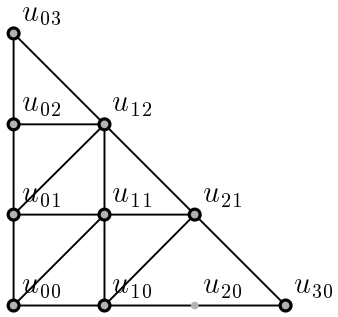
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 597. Vertex: $(5, 2, 0, 4, 2, 4, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -7 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

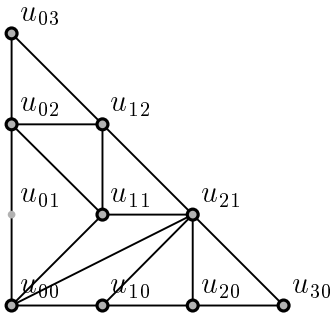
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 5 | 2 | |
| 0 | 1 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

# 598. Vertex: $(5, 1, 2, 2, 4, 5, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

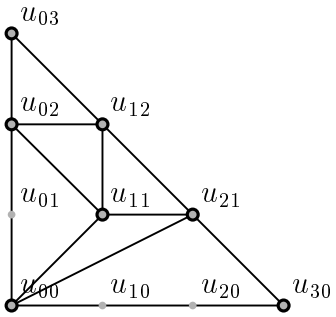
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 599. Vertex: $(5, 3, 0, 0, 6, 5, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

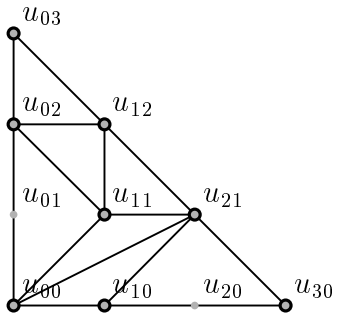
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 600. Vertex: $(5, 2, 0, 3, 4, 5, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

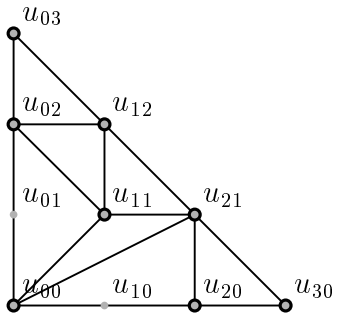
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 601. Vertex: $(5, 1, 3, 0, 5, 5, 0, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

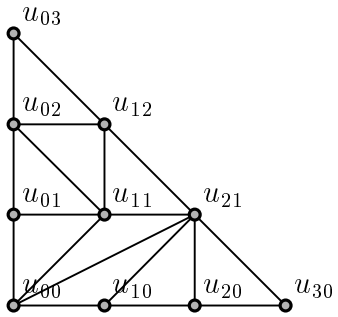
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 602. Vertex: $(5, 1, 2, 2, 3, 5, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

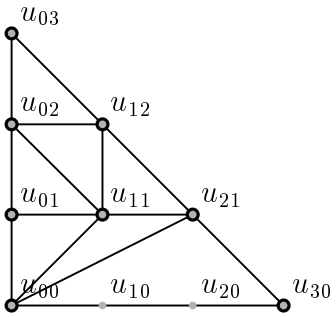
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 603. Vertex: $(5, 3, 0, 0, 5, 5, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

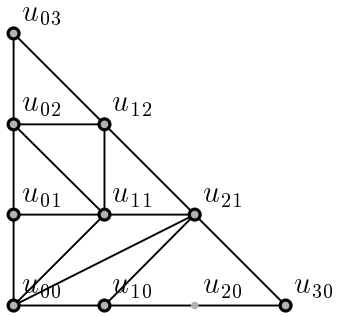
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 604. Vertex: $(5, 2, 0, 3, 3, 5, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

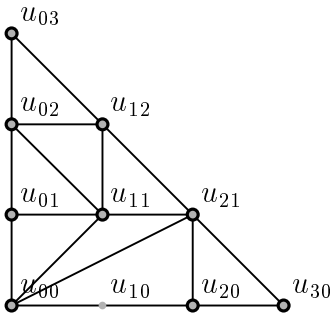
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 605. Vertex: $(5, 1, 3, 0, 4, 5, 2, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | -7 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

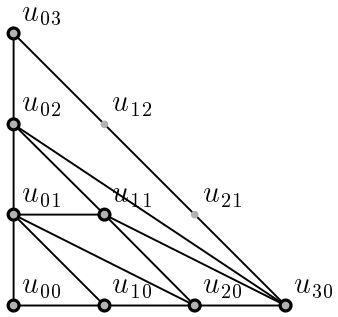
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 1 | | |
| 1 | 0 | 5 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{02} &< u_{01} + u_{12}
\end{aligned}$$

# 606. Vertex: $(4, 5, 3, 2, 1, 0, 4, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

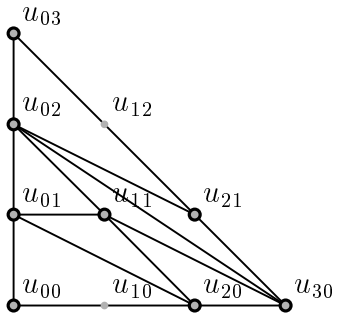
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 607. Vertex: $(4, 3, 4, 0, 2, 3, 4, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

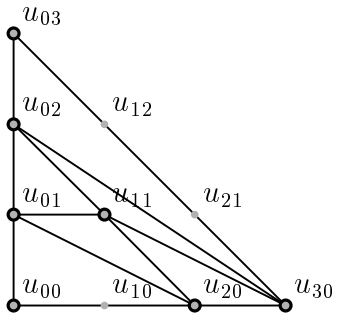
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 608. Vertex: $(4, 5, 4, 0, 2, 0, 4, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

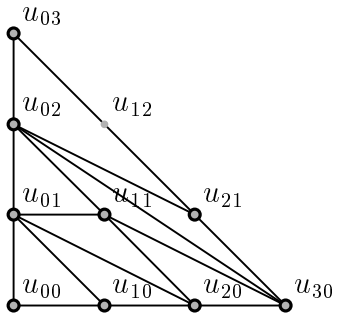
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 609. Vertex: $(4, 3, 3, 2, 1, 3, 4, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

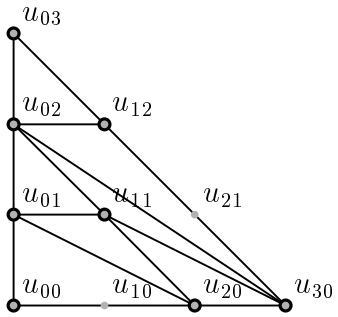
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 610. Vertex: $(4, 4, 4, 0, 2, 0, 4, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

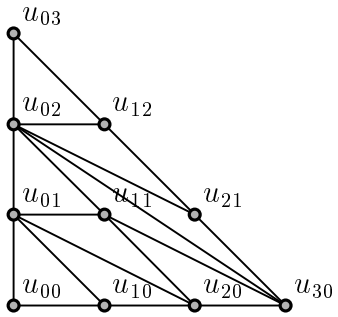
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 611. Vertex: $(4, 3, 3, 2, 1, 2, 4, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

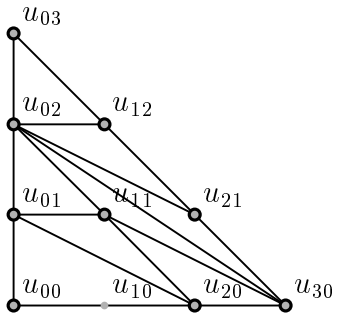
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 612. Vertex: $(4, 3, 4, 0, 2, 2, 4, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

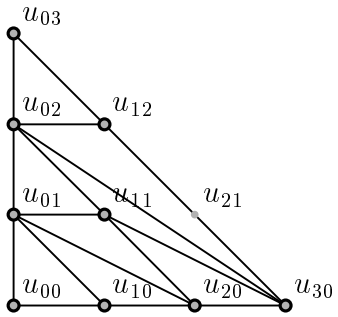
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\ u_{30} + u_{02} &< u_{11} + u_{21} \\ 2 \cdot u_{12} &< u_{21} + u_{03} \\ 2 \cdot u_{21} &< u_{30} + u_{12} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ u_{11} + u_{20} &< u_{30} + u_{01} \\ 4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \end{aligned}$$

# 613. Vertex: $(4, 4, 3, 2, 1, 0, 4, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{20} - 2 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

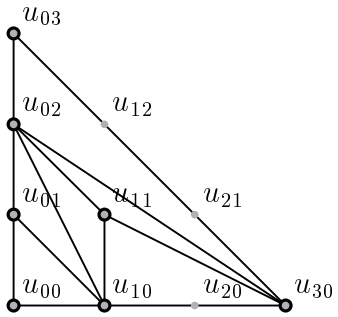
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 1 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{20} &< u_{30} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 614. Vertex: $(4, 6, 0, 5, 1, 0, 2, 0, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

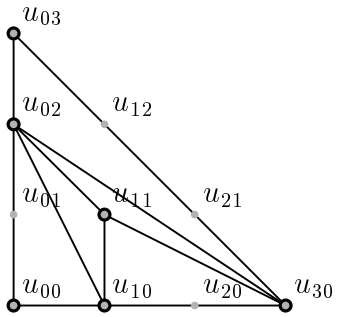
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
4 \cdot u_{11} &< u_{30} + u_{10} + 2 \cdot u_{02}
\end{aligned}$$

# 615. Vertex: $(4, 6, 0, 5, 2, 0, 0, 0, 7, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

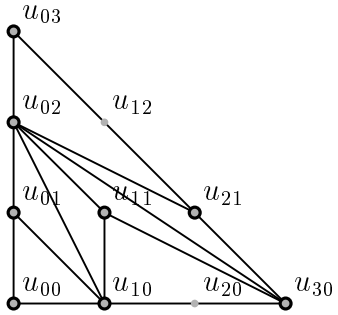
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
4 \cdot u_{11} &< u_{30} + u_{10} + 2 \cdot u_{02}
\end{aligned}$$

# 616. Vertex: $(4, 4, 0, 5, 1, 3, 2, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

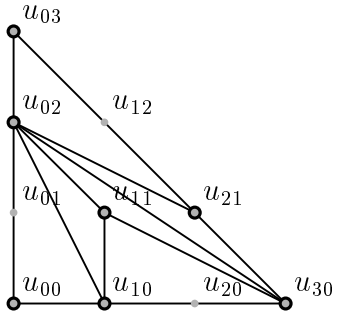
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< u_{30} + u_{10} + 2 \cdot u_{02}
\end{aligned}$$

# 617. Vertex: $(4, 4, 0, 5, 2, 3, 0, 0, 7, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

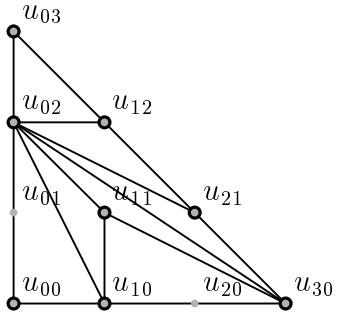
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
4 \cdot u_{11} &< u_{30} + u_{10} + 2 \cdot u_{02}
\end{aligned}$$

# 618. Vertex: $(4, 4, 0, 5, 2, 2, 0, 2, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

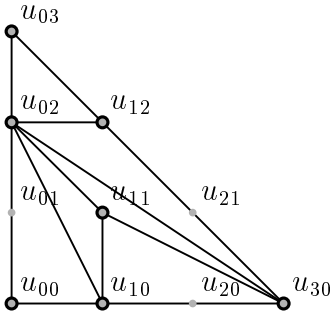
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
4 \cdot u_{11} &< u_{30} + u_{10} + 2 \cdot u_{02}
\end{aligned}$$

# 619. Vertex: $(4, 5, 0, 5, 2, 0, 0, 3, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

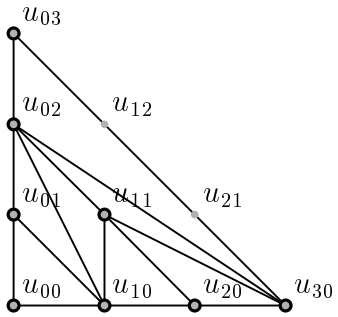
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
4 \cdot u_{11} &< u_{30} + u_{10} + 2 \cdot u_{02}
\end{aligned}$$

# 620. Vertex: $(4, 5, 2, 4, 1, 0, 2, 0, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

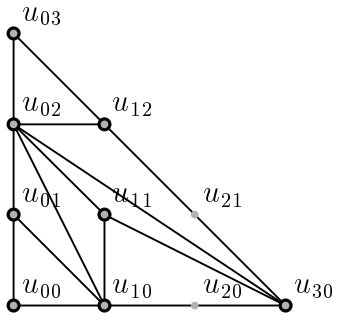
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\ u_{10} + u_{02} &< u_{11} + u_{01} \\ 2 \cdot u_{20} &< u_{30} + u_{10} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\ u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\ 4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \end{aligned}$$

# 621. Vertex: $(4, 5, 0, 5, 1, 0, 2, 3, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

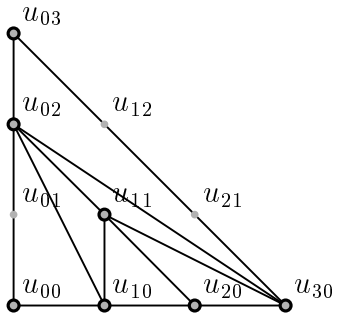
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\ u_{10} + u_{02} &< u_{11} + u_{01} \\ 3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ u_{30} + u_{12} &< 2 \cdot u_{21} \\ u_{30} + u_{10} &< 2 \cdot u_{20} \\ 4 \cdot u_{11} &< u_{30} + u_{10} + 2 \cdot u_{02} \end{aligned}$$

# 622. Vertex: $(4, 5, 2, 4, 2, 0, 0, 0, 7, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

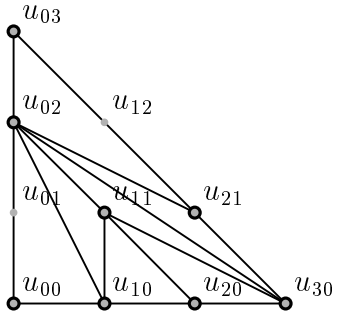
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 623. Vertex: $(4, 3, 2, 4, 2, 3, 0, 0, 7, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

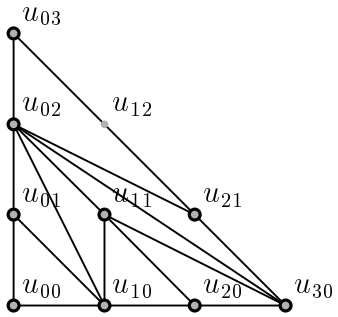
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 624. Vertex: $(4, 3, 2, 4, 1, 3, 2, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

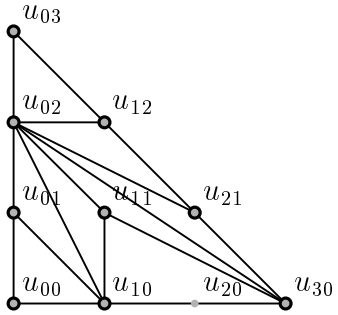
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 625. Vertex: $(4, 4, 0, 5, 1, 2, 2, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

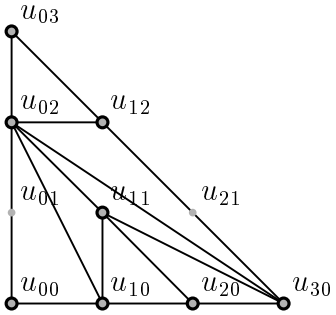
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
4 \cdot u_{11} &< u_{30} + u_{10} + 2 \cdot u_{02}
\end{aligned}$$

# 626. Vertex: $(4, 4, 2, 4, 2, 0, 0, 3, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

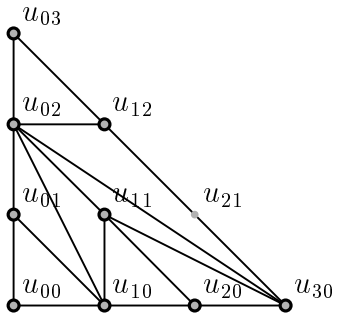
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 627. Vertex: $(4, 4, 2, 4, 1, 0, 2, 3, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

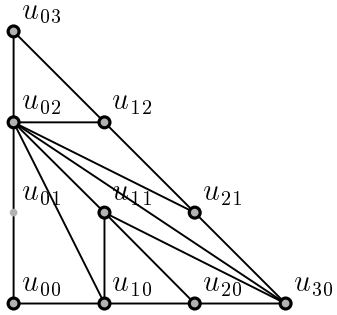
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 628. Vertex: $(4, 3, 2, 4, 2, 2, 0, 2, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

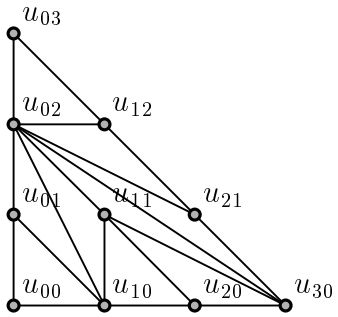
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 629. Vertex: $(4, 3, 2, 4, 1, 2, 2, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 2 \cdot u_{10} - 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

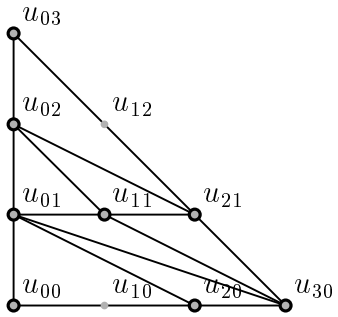
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 630. Vertex: $(4, 3, 3, 0, 2, 4, 5, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

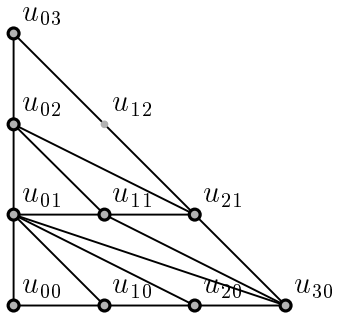
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 631. Vertex: $(4, 3, 2, 2, 1, 4, 5, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

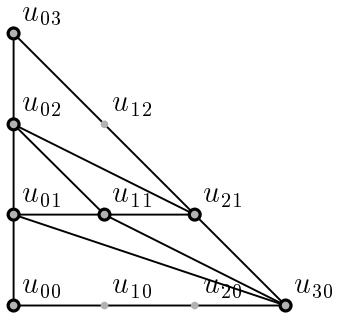
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 632. Vertex: $(4, 5, 0, 0, 3, 4, 5, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

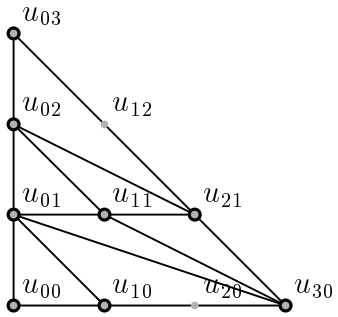
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 633. Vertex: $(4, 4, 0, 3, 1, 4, 5, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

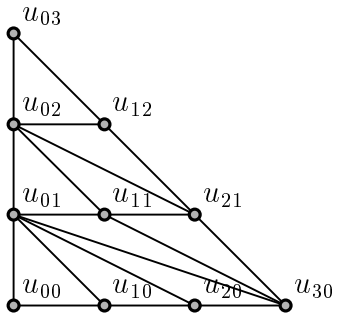
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 634. Vertex: $(4, 3, 2, 2, 1, 3, 5, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

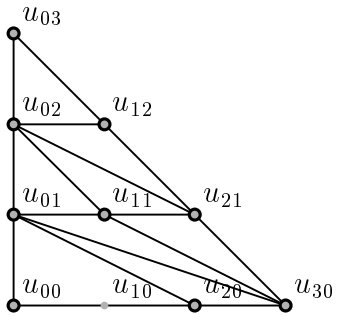
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 635. Vertex: $(4, 3, 3, 0, 2, 3, 5, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

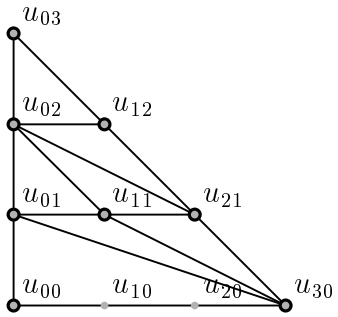
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 636. Vertex: $(4, 5, 0, 0, 3, 3, 5, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

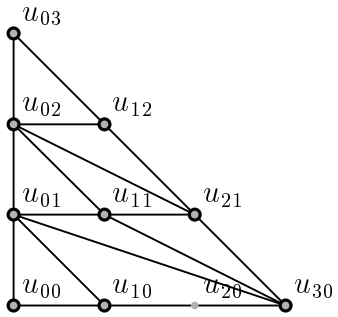
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 637. Vertex: $(4, 4, 0, 3, 1, 3, 5, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

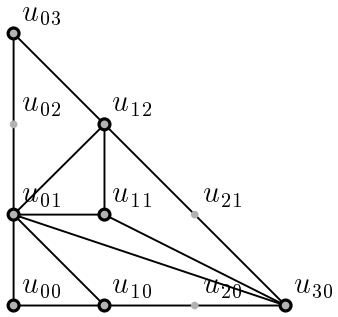
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{11} + u_{21} &< u_{30} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 638. Vertex: $(4, 5, 0, 3, 1, 0, 7, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

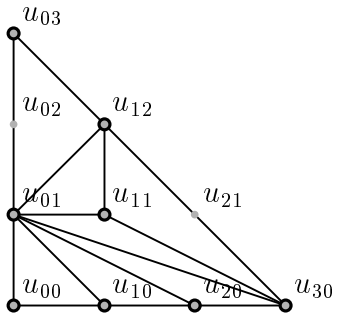
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< u_{30} + 2 \cdot u_{01} + u_{12}
\end{aligned}$$

# 639. Vertex: $(4, 4, 2, 2, 1, 0, 7, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

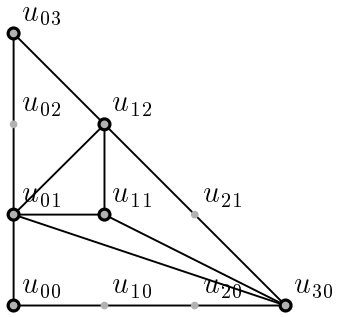
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< u_{30} + 2 \cdot u_{01} + u_{12}
\end{aligned}$$

# 640. Vertex: $(4, 6, 0, 0, 3, 0, 7, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

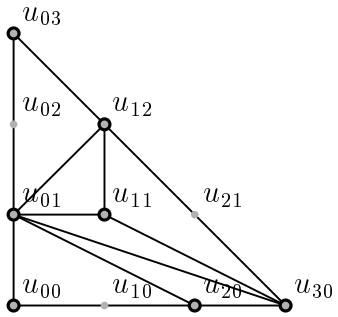
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< u_{30} + 2 \cdot u_{01} + u_{12}
\end{aligned}$$

# 641. Vertex: $(4, 4, 3, 0, 2, 0, 7, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

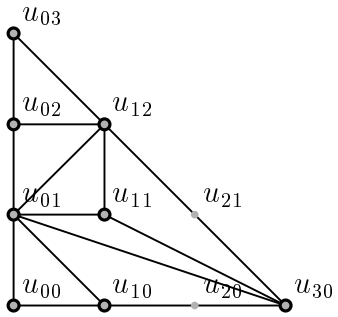
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< u_{30} + 2 \cdot u_{01} + u_{12}
\end{aligned}$$

# 642. Vertex: $(4, 5, 0, 3, 1, 0, 6, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

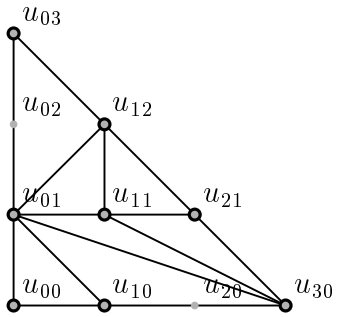
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< u_{30} + 2 \cdot u_{01} + u_{12}
\end{aligned}$$

# 643. Vertex: $(4, 4, 0, 3, 1, 2, 7, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

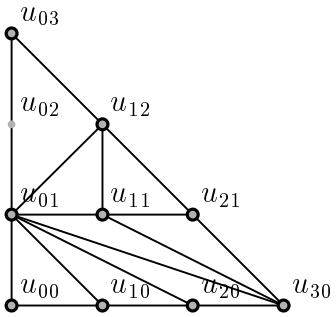
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 644. Vertex: $(4, 3, 2, 2, 1, 2, 7, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

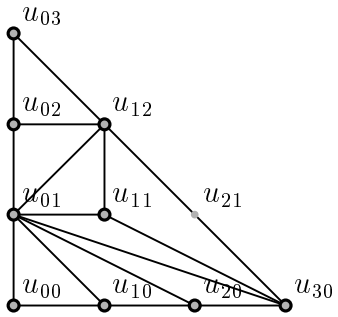
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 645. Vertex: $(4, 4, 2, 2, 1, 0, 6, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

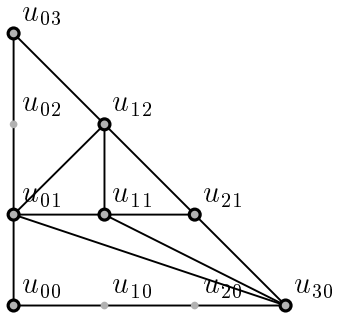
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< u_{30} + 2 \cdot u_{01} + u_{12}
\end{aligned}$$

# 646. Vertex: $(4, 5, 0, 0, 3, 2, 7, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

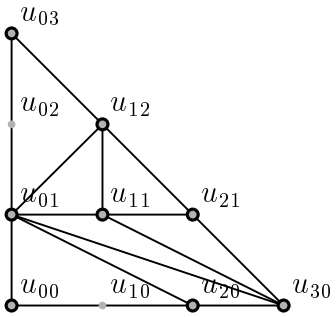
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 647. Vertex: $(4, 3, 3, 0, 2, 2, 7, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

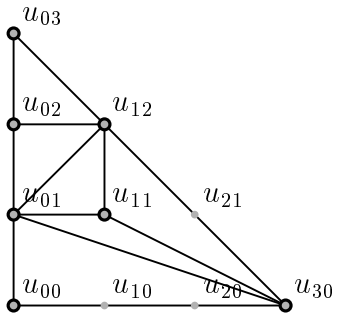
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 648. Vertex: $(4, 6, 0, 0, 3, 0, 6, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

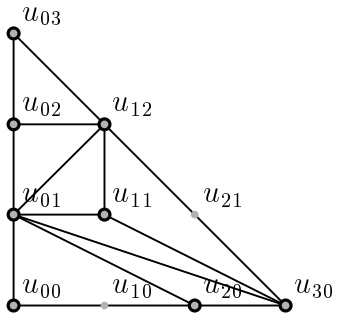
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< u_{30} + 2 \cdot u_{01} + u_{12}
\end{aligned}$$

# 649. Vertex: $(4, 4, 3, 0, 2, 0, 6, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

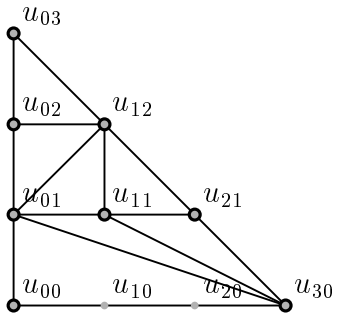
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< u_{30} + 2 \cdot u_{01} + u_{12}
\end{aligned}$$

# 650. Vertex: $(4, 5, 0, 0, 3, 2, 6, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

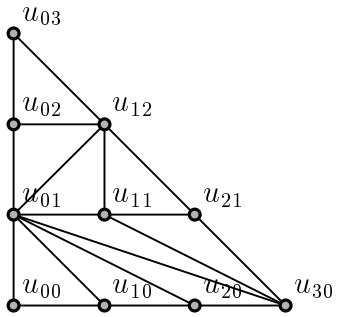
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 651. Vertex: $(4, 3, 2, 2, 1, 2, 6, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

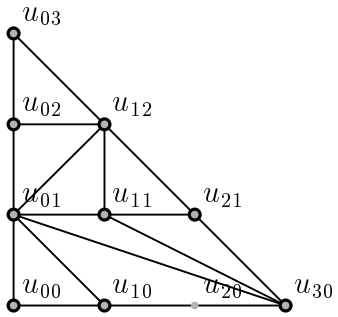
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 652. Vertex: $(4, 4, 0, 3, 1, 2, 6, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

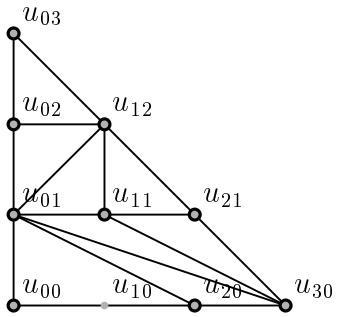
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 653. Vertex: $(4, 3, 3, 0, 2, 2, 6, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{30} - 4 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | -8 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

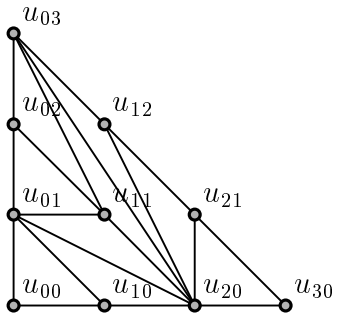
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 4 | 0 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 654. Vertex: $(4, 1, 6, 2, 1, 2, 4, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

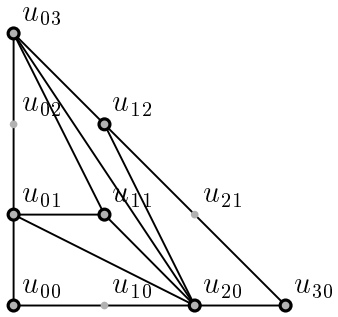
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 655. Vertex: $(4, 2, 7, 0, 2, 0, 5, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

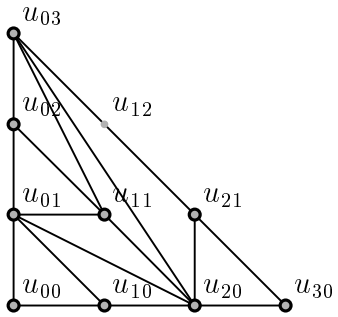
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + u_{01} + u_{03}
\end{aligned}$$

# 656. Vertex: $(4, 1, 6, 2, 1, 3, 4, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

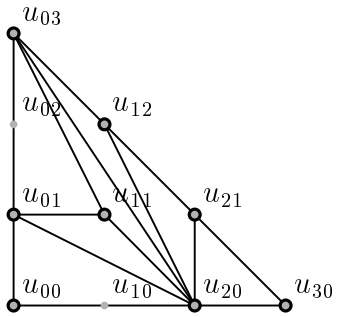
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 657. Vertex: $(4, 1, 7, 0, 2, 2, 5, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

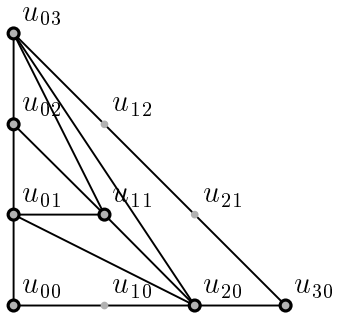
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + u_{01} + u_{03}
\end{aligned}$$

# 658. Vertex: $(4, 3, 7, 0, 2, 0, 4, 0, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| 3 | 2 | | | |
|---|---|---|---|---|
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

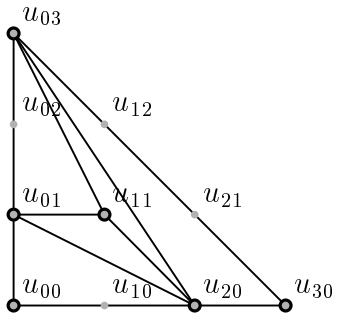
| 3 | 2 | | | |
|---|---|---|---|---|
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 659. Vertex: $(4, 3, 7, 0, 2, 0, 5, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

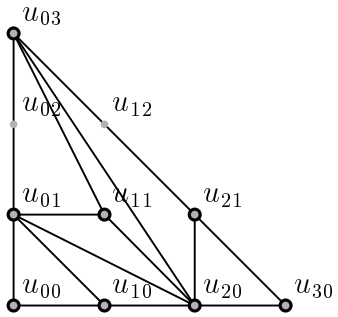
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + u_{01} + u_{03}
\end{aligned}$$

# 660. Vertex: $(4, 1, 6, 2, 1, 3, 5, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

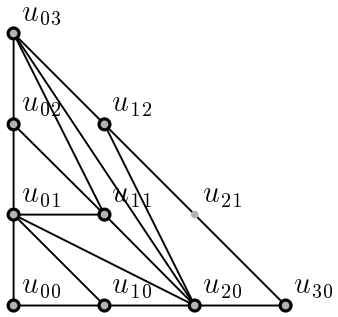
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + u_{01} + u_{03}
\end{aligned}$$

# 661. Vertex: $(4, 2, 6, 2, 1, 0, 4, 3, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

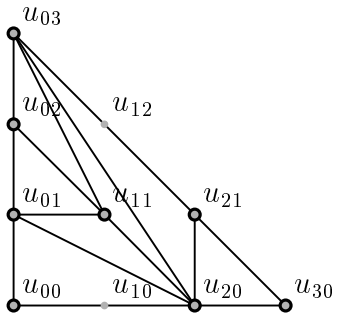
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 662. Vertex: $(4, 1, 7, 0, 2, 3, 4, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

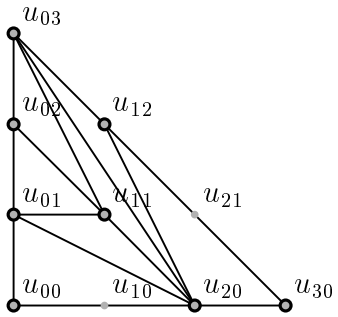
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 663. Vertex: $(4, 2, 7, 0, 2, 0, 4, 3, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

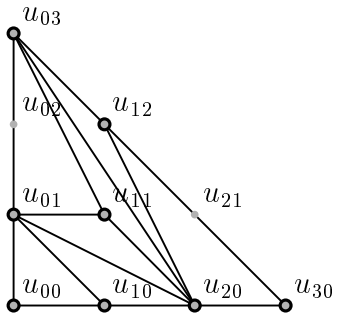
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 664. Vertex: $(4, 2, 6, 2, 1, 0, 5, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

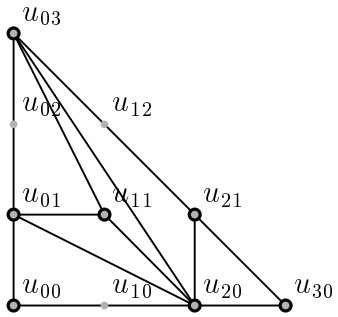
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + u_{01} + u_{03}
\end{aligned}$$

# 665. Vertex: $(4, 1, 7, 0, 2, 3, 5, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

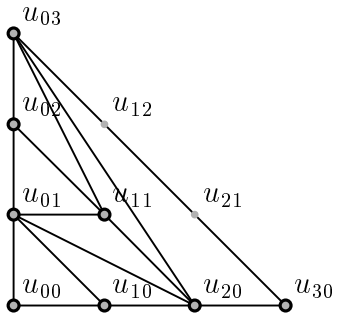
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + u_{01} + u_{03}
\end{aligned}$$

# 666. Vertex: $(4, 3, 6, 2, 1, 0, 4, 0, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

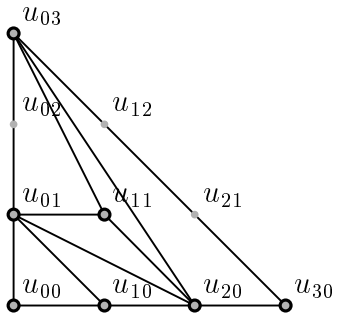
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 667. Vertex: $(4, 3, 6, 2, 1, 0, 5, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

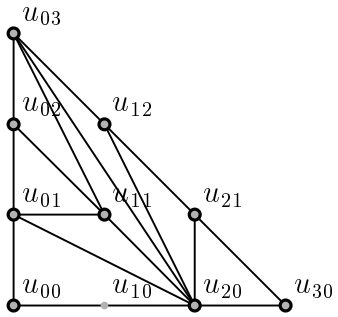
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + u_{01} + u_{03}
\end{aligned}$$

# 668. Vertex: $(4, 1, 7, 0, 2, 2, 4, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

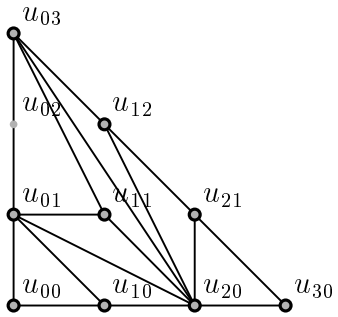
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 669. Vertex: $(4, 1, 6, 2, 1, 2, 5, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

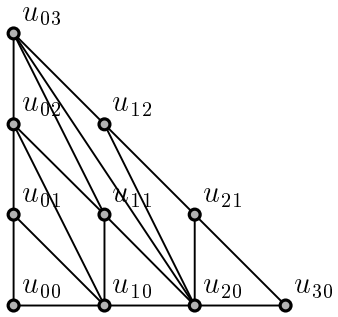
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + u_{01} + u_{03}
\end{aligned}$$

# 670. Vertex: $(4, 1, 5, 4, 1, 2, 2, 2, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

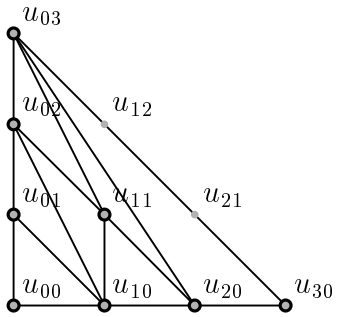
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 671. Vertex: $(4, 3, 5, 4, 1, 0, 2, 0, 3, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

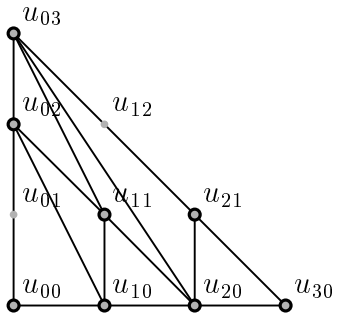
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 672. Vertex: $(4, 1, 5, 4, 2, 3, 0, 0, 4, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

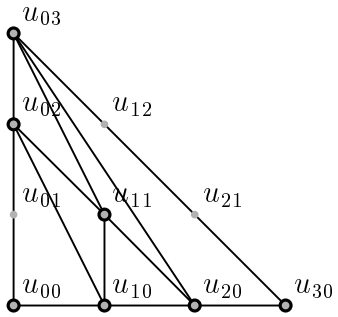
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 673. Vertex: $(4, 3, 5, 4, 2, 0, 0, 0, 4, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

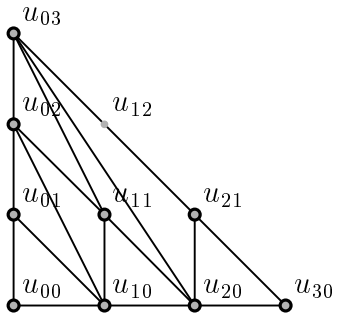
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 674. Vertex: $(4, 1, 5, 4, 1, 3, 2, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

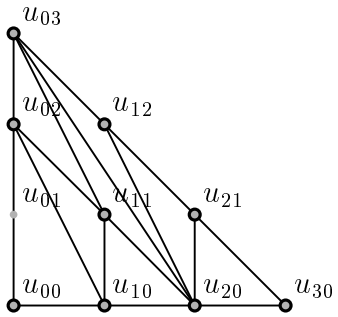
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 675. Vertex: $(4, 1, 5, 4, 2, 2, 0, 2, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

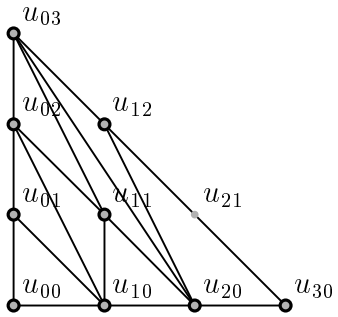
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 676. Vertex: $(4, 2, 5, 4, 1, 0, 2, 3, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

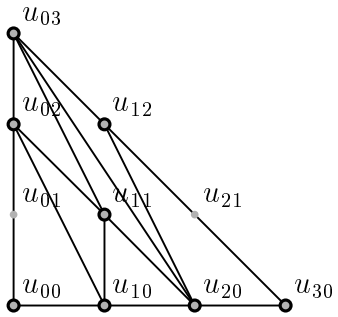
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 677. Vertex: $(4, 2, 5, 4, 2, 0, 0, 3, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{10} - u_{02} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

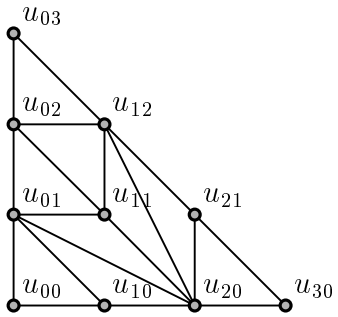
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 1 | 0 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{02} &< u_{10} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 678. Vertex: $(4, 1, 5, 2, 1, 2, 4, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

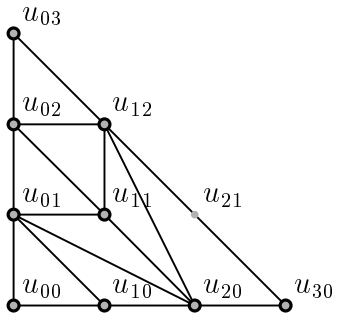
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 679. Vertex: $(4, 2, 5, 2, 1, 0, 4, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

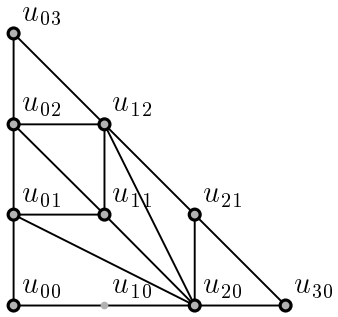
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 680. Vertex: $(4, 1, 6, 0, 2, 2, 4, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

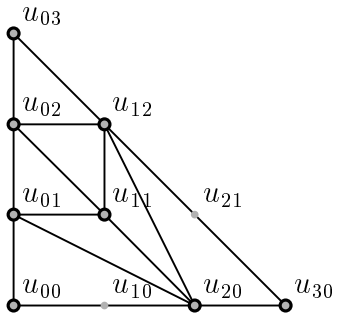
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 681. Vertex: $(4, 2, 6, 0, 2, 0, 4, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

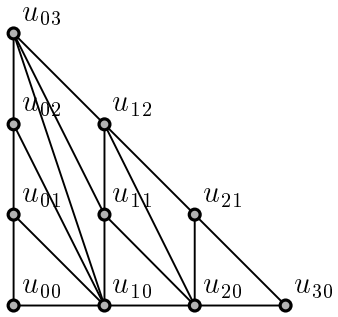
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 1 | 2 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 682. Vertex: $(4, 1, 4, 5, 1, 2, 2, 3, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

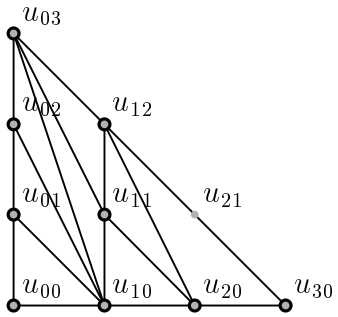
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 683. Vertex: $(4, 2, 4, 5, 1, 0, 2, 4, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

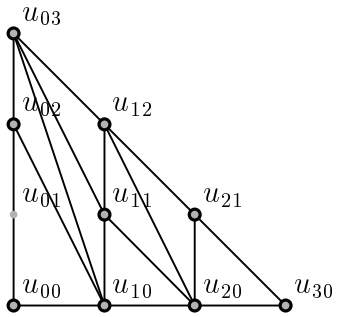
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 684. Vertex: $(4, 1, 4, 5, 2, 2, 0, 3, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

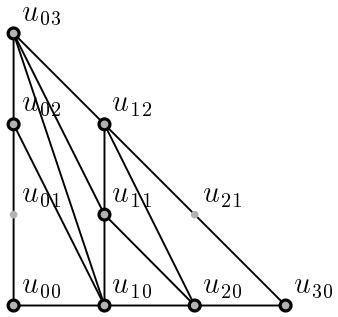
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 685. Vertex: $(4, 2, 4, 5, 2, 0, 0, 4, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

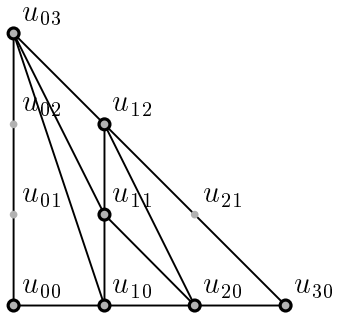
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 686. Vertex: $(4, 2, 4, 5, 3, 0, 0, 4, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

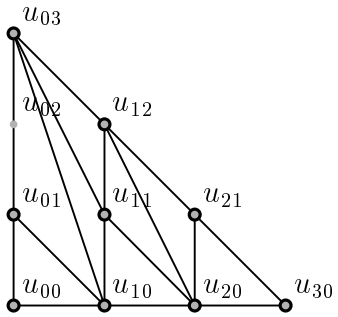
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 687. Vertex: $(4, 1, 4, 5, 1, 2, 3, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

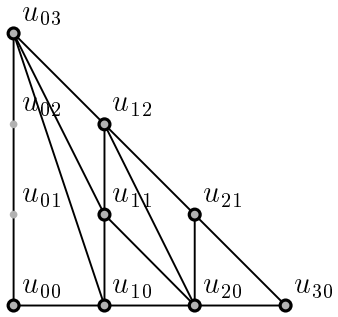
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 688. Vertex: $(4, 1, 4, 5, 3, 2, 0, 3, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

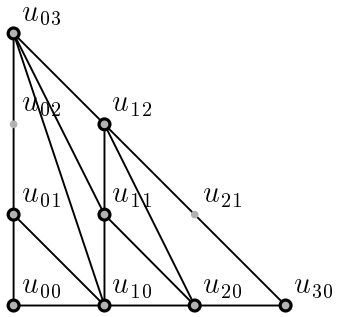
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 689. Vertex: $(4, 2, 4, 5, 1, 0, 3, 4, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{10} - u_{12} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

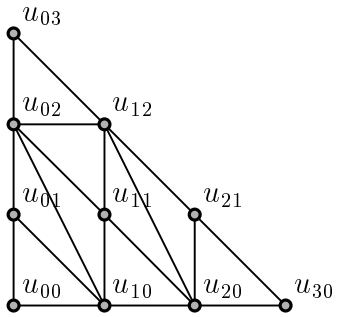
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 1 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{12} &< u_{20} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 690. Vertex: $(4, 1, 4, 4, 1, 2, 2, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 2 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

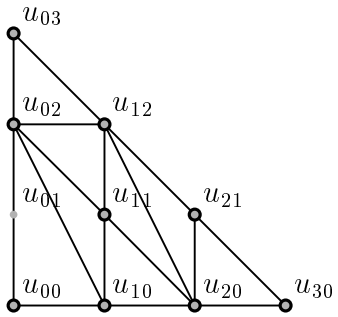
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 2 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 691. Vertex: $(4, 1, 4, 4, 2, 2, 0, 4, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 2 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

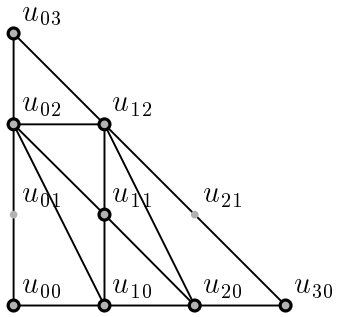
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 2 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 692. Vertex: $(4, 2, 4, 4, 2, 0, 0, 5, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 2 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

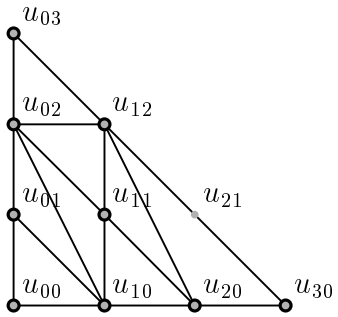
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 2 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 693. Vertex: $(4, 2, 4, 4, 1, 0, 2, 5, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 2 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

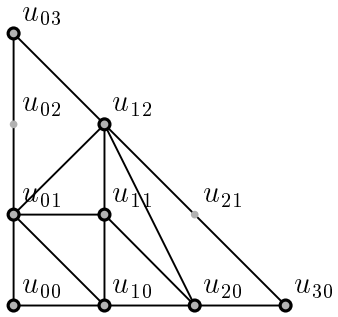
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 2 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 0 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 694. Vertex: $(4, 2, 4, 3, 1, 0, 5, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

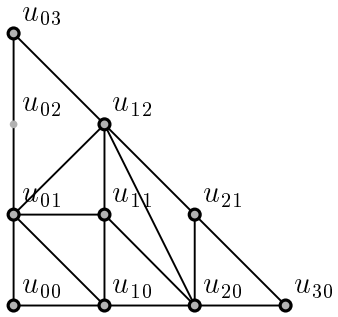
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 695. Vertex: $(4, 1, 4, 3, 1, 2, 5, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

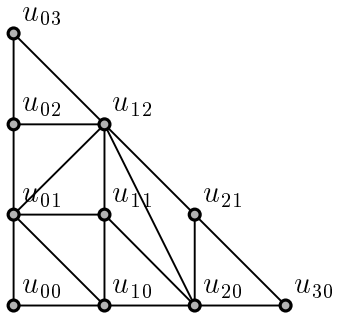
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\ u_{10} + u_{01} &< u_{11} + u_{00} \\ u_{20} + u_{12} &< u_{11} + u_{21} \\ 2 \cdot u_{21} &< u_{30} + u_{12} \\ u_{01} + u_{03} &< 2 \cdot u_{02} \\ u_{11} + u_{10} &< u_{20} + u_{01} \\ 4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \end{aligned}$$

# 696. Vertex: $(4, 1, 4, 3, 1, 2, 4, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

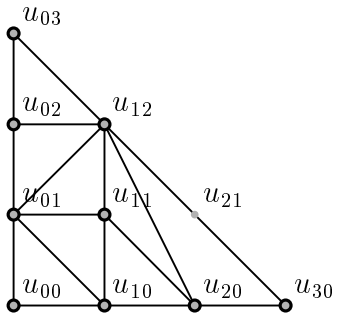
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 697. Vertex: $(4, 2, 4, 3, 1, 0, 4, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 2 | -8 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

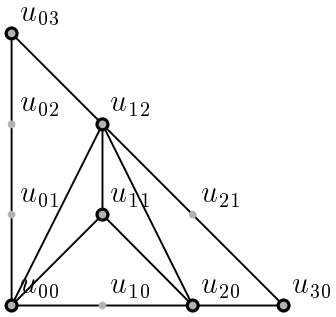
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 2 | 4 | 0 | |
| 0 | 0 | 1 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 698. Vertex: $(4, 2, 5, 0, 6, 0, 0, 7, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

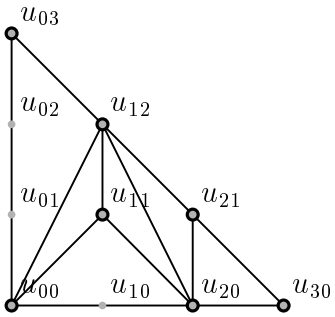
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
4 \cdot u_{11} &< u_{20} + u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 699. Vertex: $(4, 1, 5, 0, 6, 2, 0, 6, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

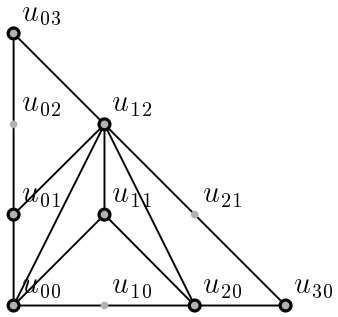
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
4 \cdot u_{11} &< u_{20} + u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 700. Vertex: $(4, 2, 5, 0, 4, 0, 3, 7, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

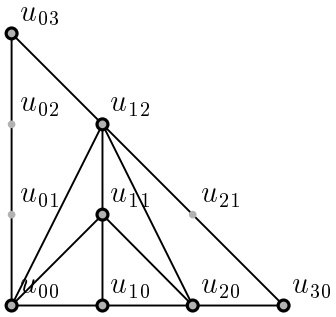
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< u_{20} + u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 701. Vertex: $(4, 2, 4, 2, 5, 0, 0, 7, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

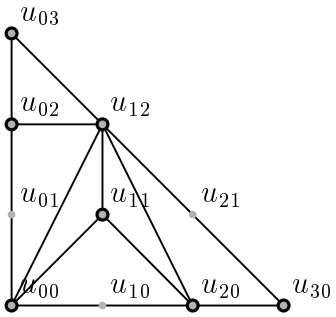
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 702. Vertex: $(4, 2, 5, 0, 5, 0, 0, 7, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

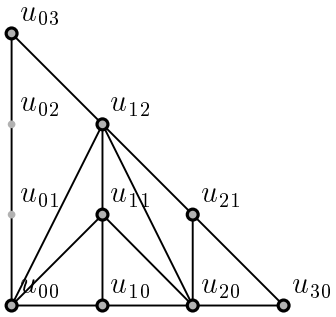
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< u_{20} + u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 703. Vertex: $(4, 1, 4, 2, 5, 2, 0, 6, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

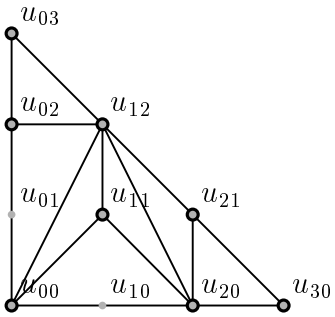
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\ u_{20} + u_{12} &< u_{11} + u_{21} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{21} &< u_{30} + u_{12} \\ u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\ 2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\ 4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \end{aligned}$$

# 704. Vertex: $(4, 1, 5, 0, 5, 2, 0, 6, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

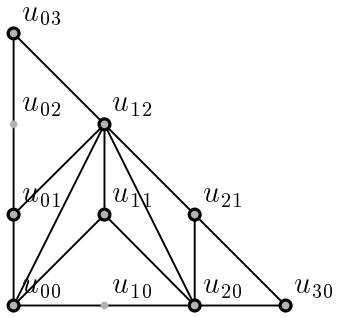
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< u_{20} + u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 705. Vertex: $(4, 1, 5, 0, 4, 2, 3, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

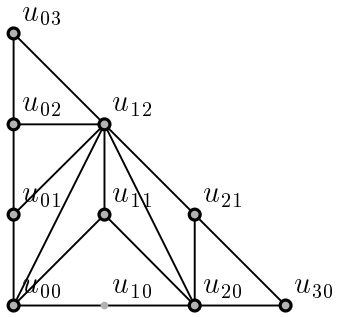
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< u_{20} + u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 706. Vertex: $(4, 1, 5, 0, 4, 2, 2, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

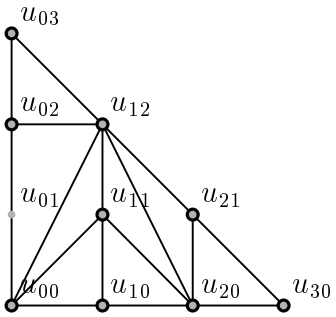
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< u_{20} + u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 707. Vertex: $(4, 1, 4, 2, 4, 2, 0, 6, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

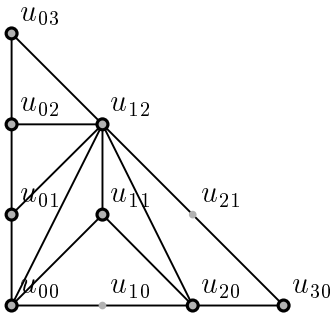
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 708. Vertex: $(4, 2, 5, 0, 4, 0, 2, 7, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

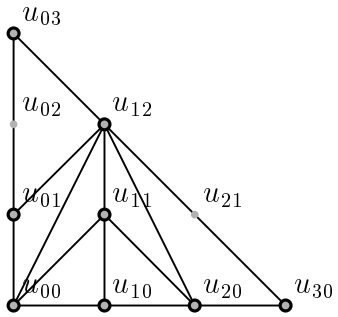
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< u_{20} + u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 709. Vertex: $(4, 2, 4, 2, 3, 0, 3, 7, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

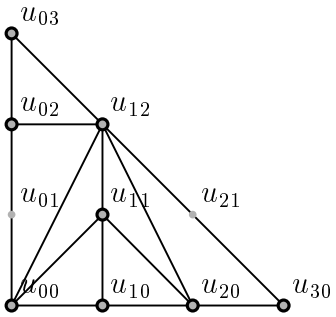
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 710. Vertex: $(4, 2, 4, 2, 4, 0, 0, 7, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

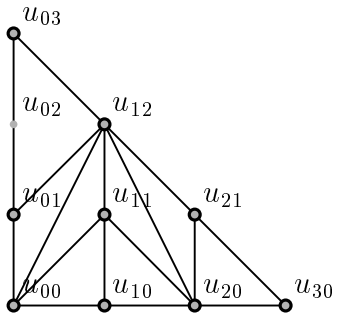
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 711. Vertex: $(4, 1, 4, 2, 3, 2, 3, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

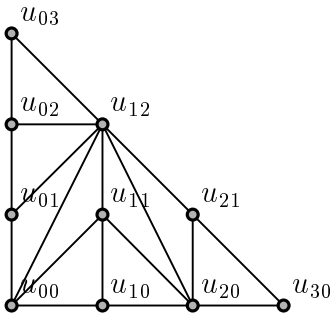
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 712. Vertex: $(4, 1, 4, 2, 3, 2, 2, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

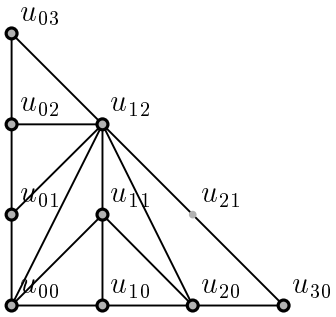
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 713. Vertex: $(4, 2, 4, 2, 3, 0, 2, 7, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | -8 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

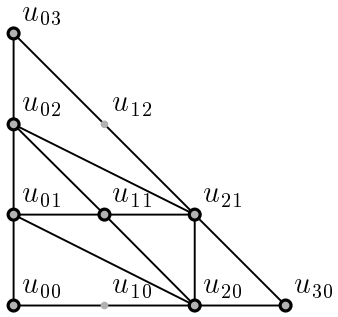
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 4 | 0 | |
| 0 | 2 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 714. Vertex: $(4, 1, 5, 0, 2, 5, 4, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | -8 | 2 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

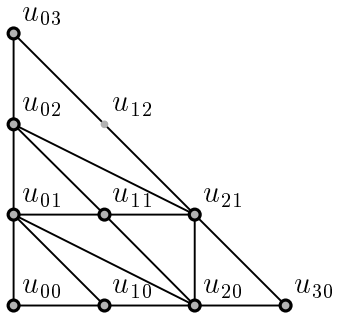
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 4 | 2 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 715. Vertex: $(4, 1, 4, 2, 1, 5, 4, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | -8 | 2 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

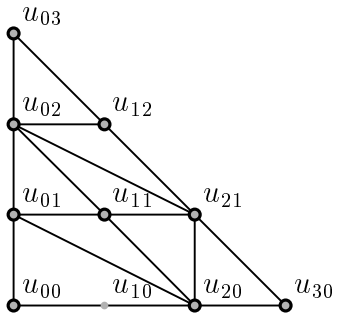
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 4 | 2 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 716. Vertex: $(4, 1, 5, 0, 2, 4, 4, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | -8 | 2 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

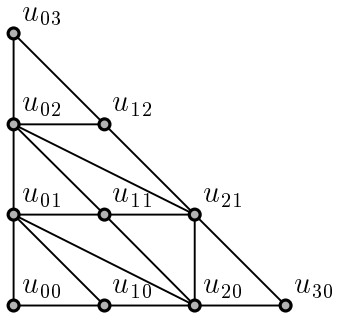
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 4 | 2 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 717. Vertex: $(4, 1, 4, 2, 1, 4, 4, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | -8 | 2 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

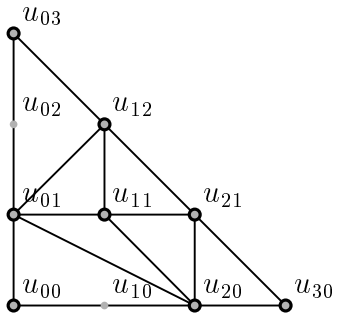
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 4 | 2 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 718. Vertex: $(4, 1, 5, 0, 2, 3, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

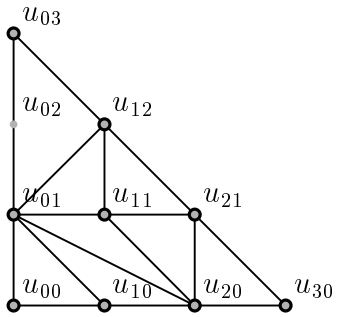
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 719. Vertex: $(4, 1, 4, 2, 1, 3, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

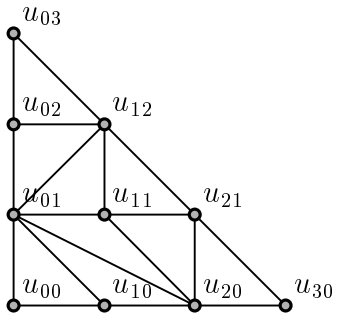
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 720. Vertex: $(4, 1, 4, 2, 1, 3, 5, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

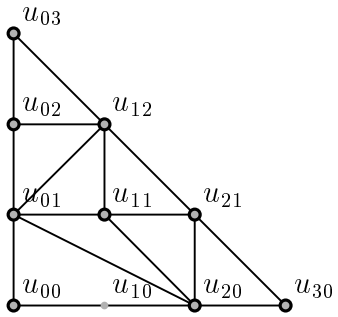
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 721. Vertex: $(4, 1, 5, 0, 2, 3, 5, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | -8 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

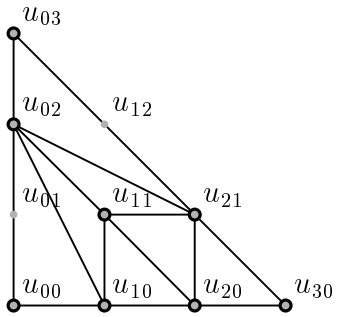
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 4 | 1 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\ u_{20} + u_{21} &< u_{11} + u_{30} \\ u_{01} + u_{12} &< u_{11} + u_{02} \\ 2 \cdot u_{02} &< u_{01} + u_{03} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ u_{11} + u_{21} &< u_{20} + u_{12} \\ 4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \end{aligned}$$

# 722. Vertex: $(4, 1, 3, 4, 2, 5, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 2 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

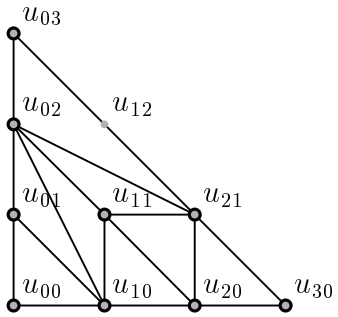
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 2 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 723. Vertex: $(4, 1, 3, 4, 1, 5, 2, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 2 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

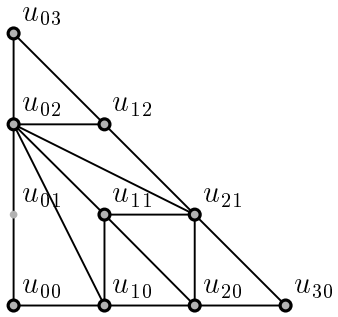
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 2 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 724. Vertex: $(4, 1, 3, 4, 2, 4, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 2 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

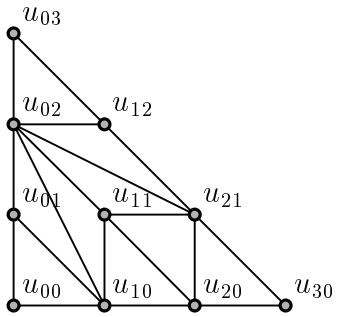
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 2 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 725. Vertex: $(4, 1, 3, 4, 1, 4, 2, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 2 | 1 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

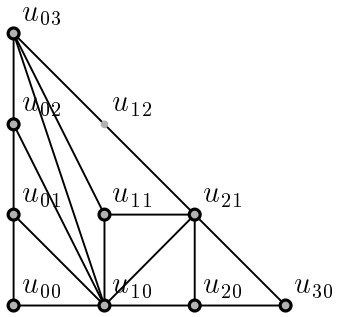
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 2 | 1 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{21} &< u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

# 726. Vertex: $(4, 1, 2, 6, 1, 5, 2, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

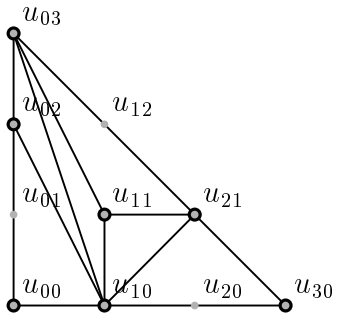
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{21} + u_{03}
\end{aligned}$$

# 727. Vertex: $(4, 2, 0, 7, 2, 5, 0, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

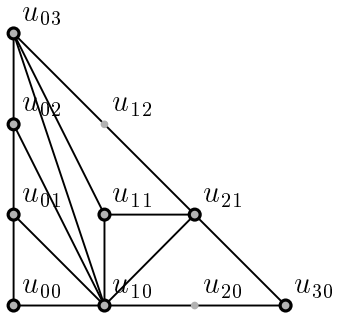
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{21} + u_{03}
\end{aligned}$$

# 728. Vertex: $(4, 2, 0, 7, 1, 5, 2, 0, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

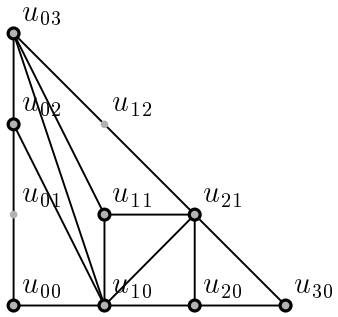
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{21} + u_{03}
\end{aligned}$$

# 729. Vertex: $(4, 1, 2, 6, 2, 5, 0, 0, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

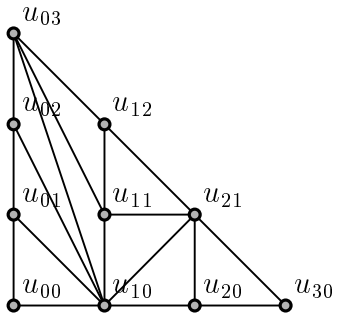
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{21} + u_{03}
\end{aligned}$$

# 730. Vertex: $(4, 1, 2, 6, 1, 4, 2, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

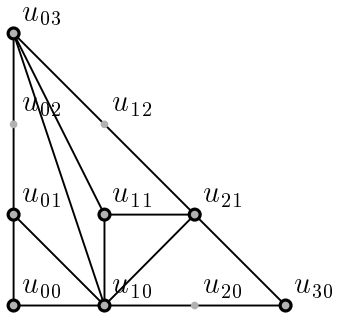
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 731. Vertex: $(4, 2, 0, 7, 1, 5, 3, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

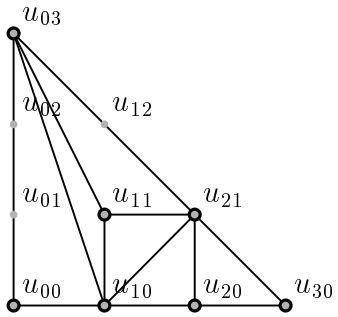
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{21} + u_{03}
\end{aligned}$$

# 732. Vertex: $(4, 1, 2, 6, 3, 5, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

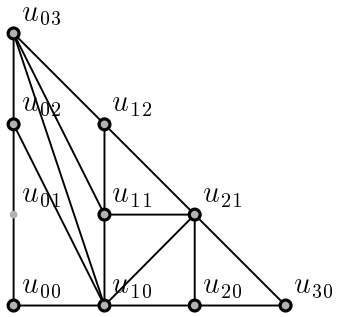
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{21} + u_{03}
\end{aligned}$$

# 733. Vertex: $(4, 1, 2, 6, 2, 4, 0, 2, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

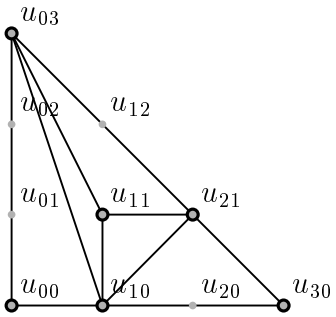
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 734. Vertex: $(4, 2, 0, 7, 3, 5, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

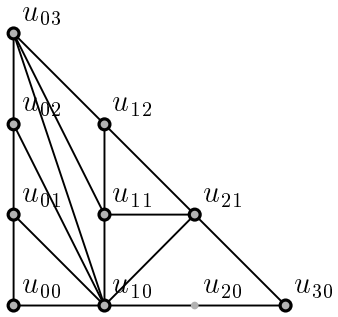
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{21} + u_{03}
\end{aligned}$$

# 735. Vertex: $(4, 2, 0, 7, 1, 4, 2, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

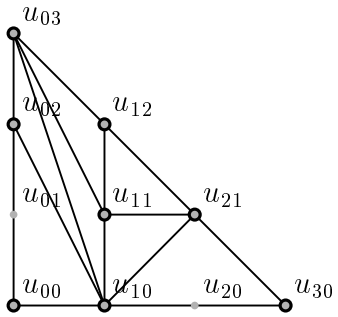
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 736. Vertex: $(4, 2, 0, 7, 2, 4, 0, 2, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

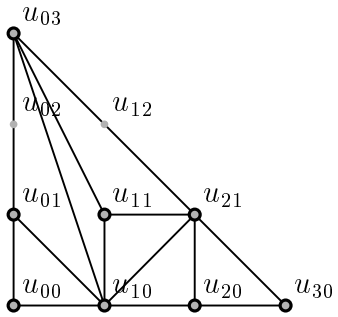
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 737. Vertex: $(4, 1, 2, 6, 1, 5, 3, 0, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

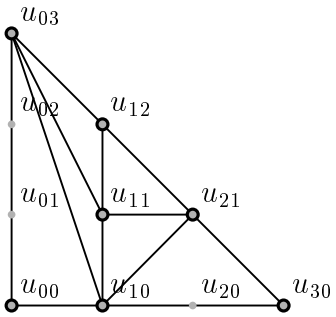
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{21} + u_{03}
\end{aligned}$$

# 738. Vertex: $(4, 2, 0, 7, 3, 4, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

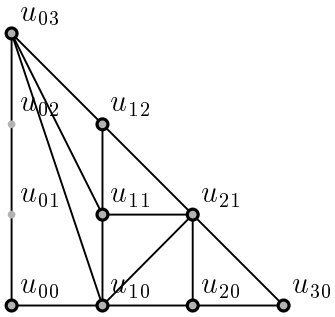
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 739. Vertex: $(4, 1, 2, 6, 3, 4, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

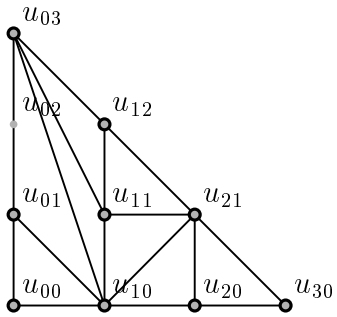
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 740. Vertex: $(4, 1, 2, 6, 1, 4, 3, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

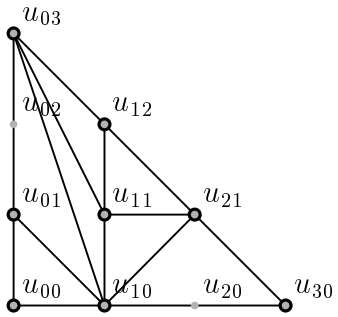
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 741. Vertex: $(4, 2, 0, 7, 1, 4, 3, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

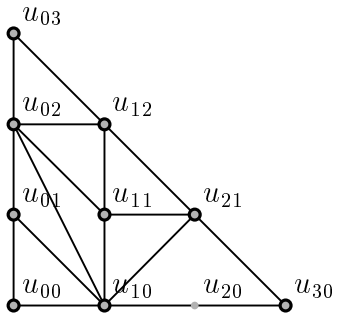
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 742. Vertex: $(4, 2, 0, 6, 1, 4, 2, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

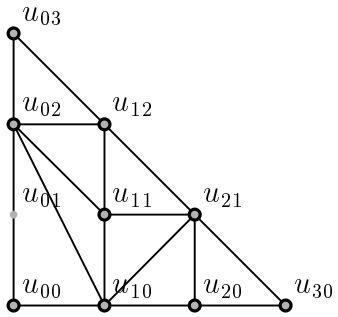
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 743. Vertex: $(4, 1, 2, 5, 2, 4, 0, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

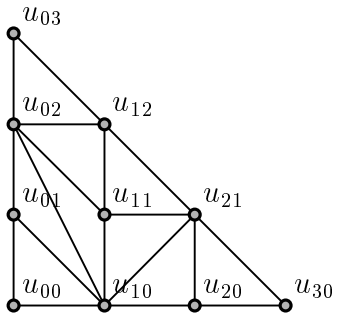
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 744. Vertex: $(4, 1, 2, 5, 1, 4, 2, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

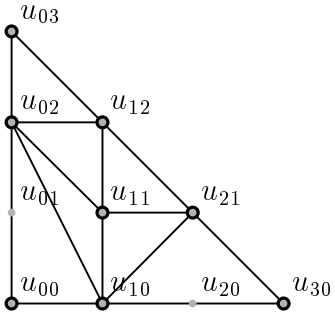
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 745. Vertex: $(4, 2, 0, 6, 2, 4, 0, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

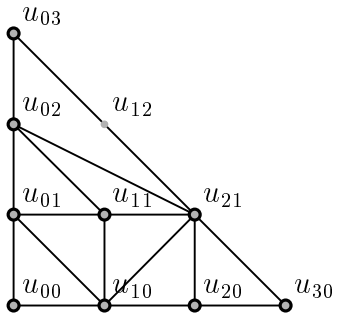
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 1 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{12} + u_{02} &< u_{11} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 746. Vertex: $(4, 1, 2, 4, 1, 6, 3, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

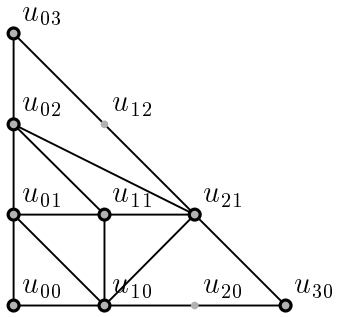
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 747. Vertex: $(4, 2, 0, 5, 1, 6, 3, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

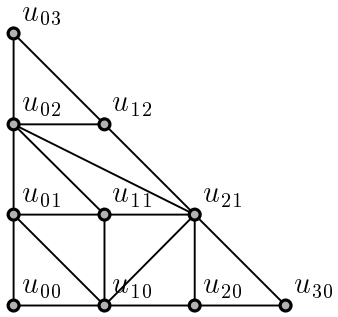
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 748. Vertex: $(4, 1, 2, 4, 1, 5, 3, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

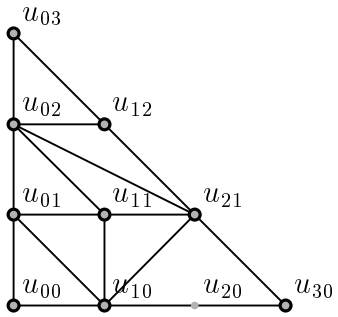
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 749. Vertex: $(4, 2, 0, 5, 1, 5, 3, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

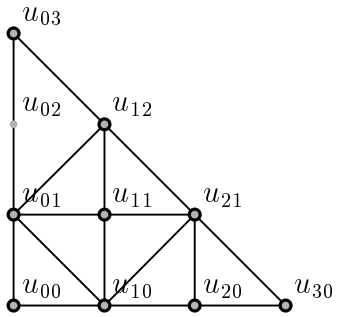
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\ u_{21} + u_{02} &< u_{11} + u_{12} \\ u_{10} + u_{01} &< u_{11} + u_{00} \\ 2 \cdot u_{12} &< u_{21} + u_{03} \\ u_{30} + u_{10} &< 2 \cdot u_{20} \\ u_{11} + u_{01} &< u_{10} + u_{02} \\ 4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \end{aligned}$$

# 750. Vertex: $(4, 1, 2, 4, 1, 4, 5, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -8 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

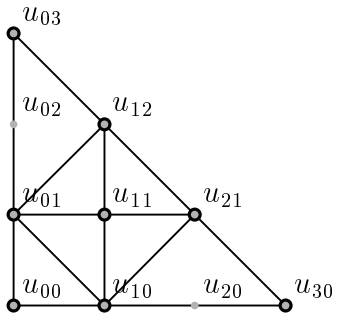
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 4 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 751. Vertex: $(4, 2, 0, 5, 1, 4, 5, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -8 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

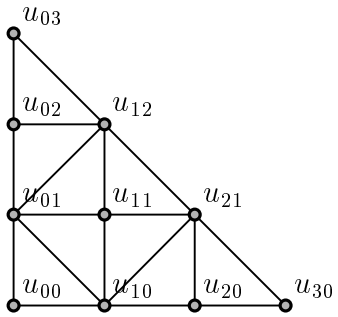
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 4 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 752. Vertex: $(4, 1, 2, 4, 1, 4, 4, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -8 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

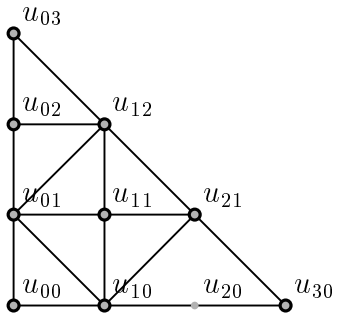
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 4 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 753. Vertex: $(4, 2, 0, 5, 1, 4, 4, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | -8 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

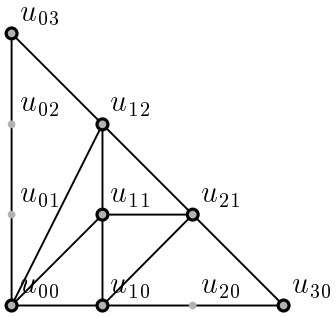
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 2 | 4 | 2 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\ u_{01} + u_{12} &< u_{11} + u_{02} \\ u_{10} + u_{01} &< u_{11} + u_{00} \\ 2 \cdot u_{02} &< u_{01} + u_{03} \\ u_{30} + u_{10} &< 2 \cdot u_{20} \\ 4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\ 4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \end{aligned}$$

# 754. Vertex: $(4, 2, 0, 4, 5, 4, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

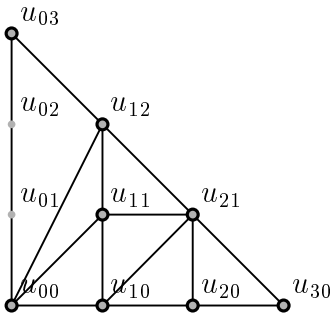
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 755. Vertex: $(4, 1, 2, 3, 5, 4, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

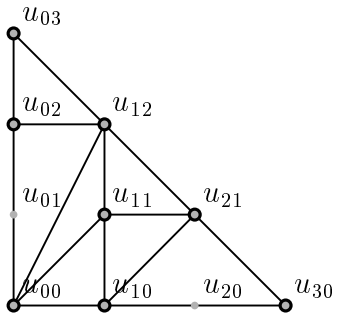
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 756. Vertex: $(4, 2, 0, 4, 4, 4, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

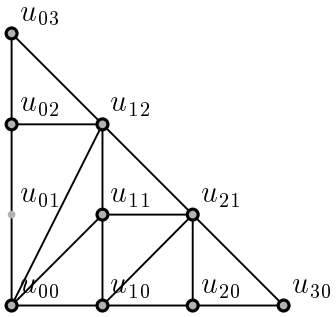
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 757. Vertex: $(4, 1, 2, 3, 4, 4, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

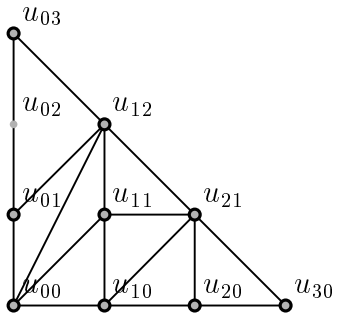
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 758. Vertex: $(4, 1, 2, 3, 3, 4, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

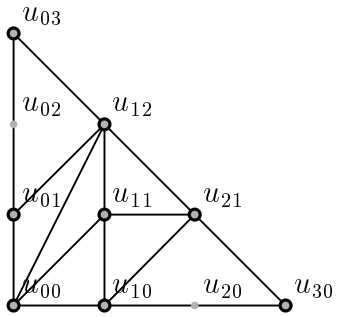
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 759. Vertex: $(4, 2, 0, 4, 3, 4, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

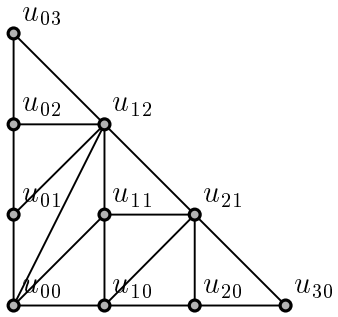
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 760. Vertex: $(4, 1, 2, 3, 3, 4, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

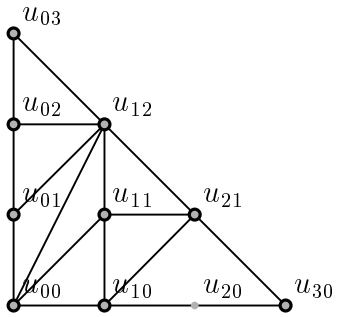
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 761. Vertex: $(4, 2, 0, 4, 3, 4, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -8 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

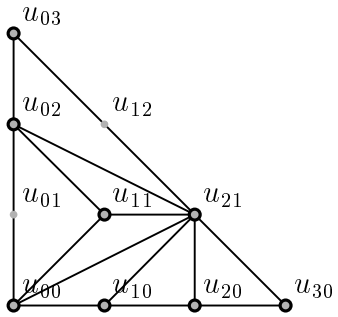
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 4 | 2 | |
| 0 | 2 | 1 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\ u_{00} + u_{12} &< u_{11} + u_{01} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{02} &< u_{01} + u_{03} \\ u_{30} + u_{10} &< 2 \cdot u_{20} \\ u_{11} + u_{10} &< u_{00} + u_{21} \\ 4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \end{aligned}$$

# 762. Vertex: $(4, 1, 2, 2, 4, 7, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

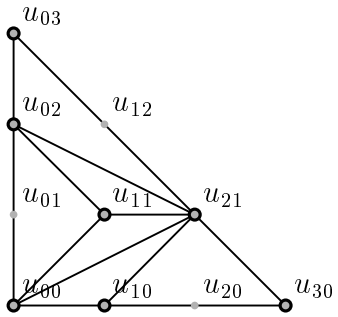
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02}
\end{aligned}$$

# 763. Vertex: $(4, 2, 0, 3, 4, 7, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

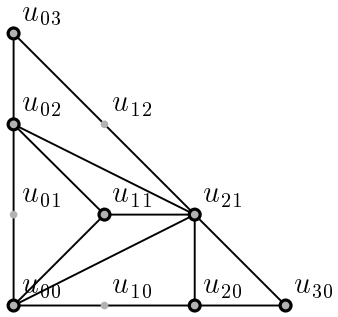
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02}
\end{aligned}$$

# 764. Vertex: $(4, 1, 3, 0, 5, 7, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

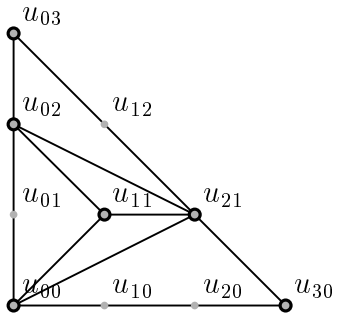
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02}
\end{aligned}$$

# 765. Vertex: $(4, 3, 0, 0, 6, 7, 0, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

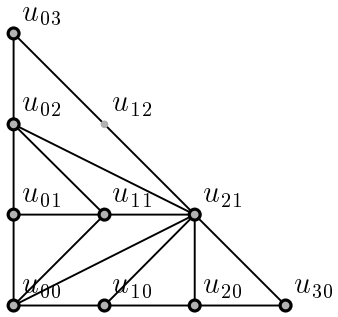
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02}
\end{aligned}$$

# 766. Vertex: $(4, 1, 2, 2, 3, 7, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

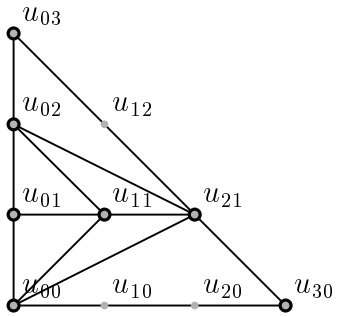
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 767. Vertex: $(4, 3, 0, 0, 5, 7, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

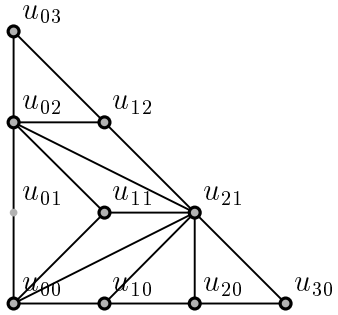
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 768. Vertex: $(4, 1, 2, 2, 4, 6, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

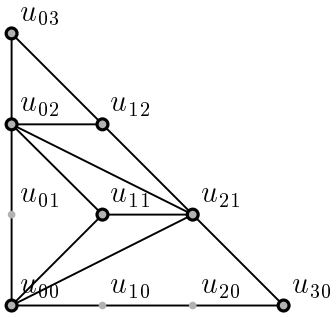
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02}
\end{aligned}$$

# 769. Vertex: $(4, 3, 0, 0, 6, 6, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

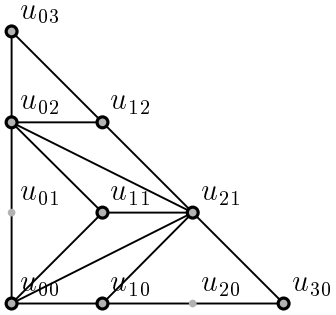
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02}
\end{aligned}$$

# 770. Vertex: $(4, 2, 0, 3, 4, 6, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

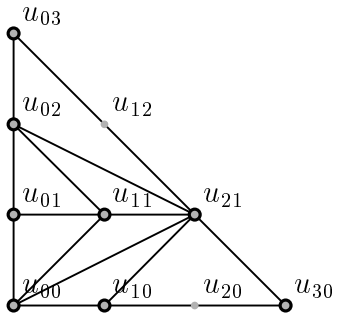
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02}
\end{aligned}$$

# 771. Vertex: $(4, 2, 0, 3, 3, 7, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

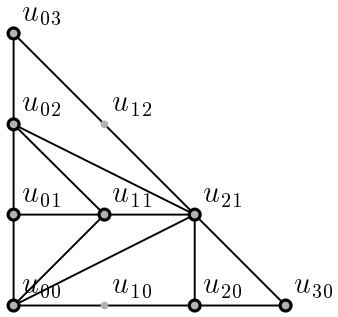
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 772. Vertex: $(4, 1, 3, 0, 4, 7, 2, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

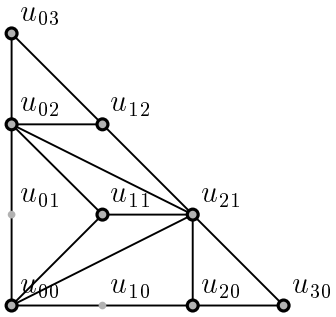
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 773. Vertex: $(4, 1, 3, 0, 5, 6, 0, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

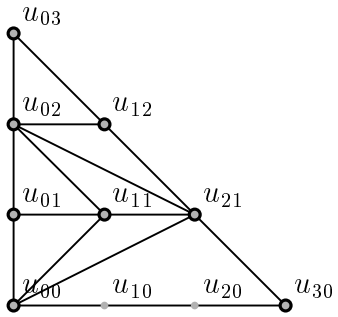
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02}
\end{aligned}$$

# 774. Vertex: $(4, 3, 0, 0, 5, 6, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

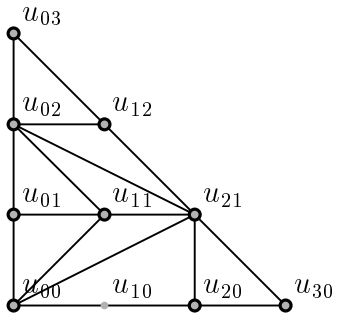
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\ u_{21} + u_{02} &< u_{11} + u_{12} \\ 2 \cdot u_{12} &< u_{21} + u_{03} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\ u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\ 4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \end{aligned}$$

# 775. Vertex: $(4, 1, 3, 0, 4, 6, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

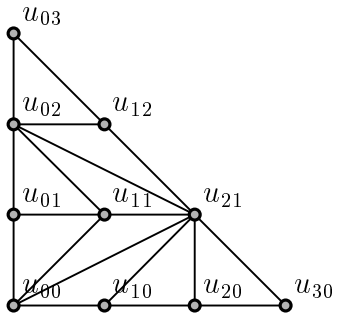
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 776. Vertex: $(4, 1, 2, 2, 3, 6, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

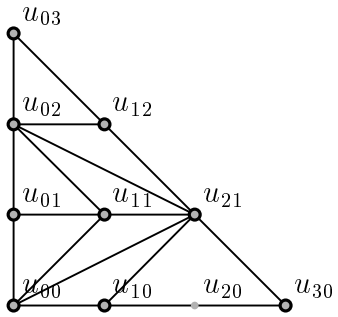
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 777. Vertex: $(4, 2, 0, 3, 3, 6, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | -8 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

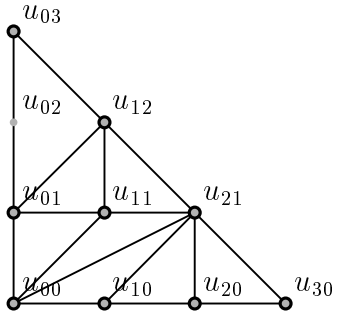
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 0 | 4 | 4 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 778. Vertex: $(4, 1, 2, 2, 3, 5, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

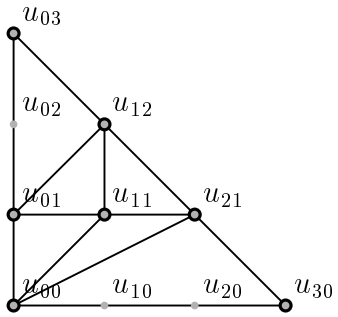
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\ u_{00} + u_{21} &< u_{11} + u_{10} \\ 2 \cdot u_{20} &< u_{30} + u_{10} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{01} + u_{03} &< 2 \cdot u_{02} \\ u_{11} + u_{01} &< u_{00} + u_{12} \\ 4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \end{aligned}$$

# 779. Vertex: $(4, 3, 0, 0, 5, 5, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

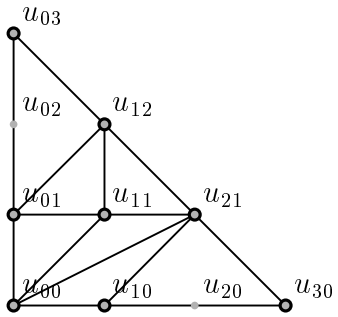
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 780. Vertex: $(4, 2, 0, 3, 3, 5, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

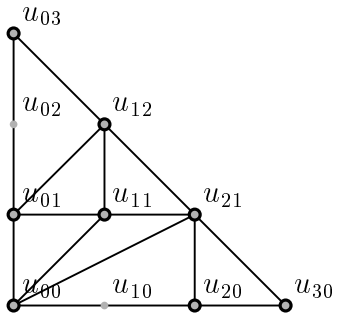
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 781. Vertex: $(4, 1, 3, 0, 4, 5, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

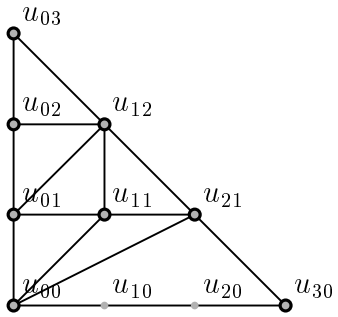
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 782. Vertex: $(4, 3, 0, 0, 5, 5, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

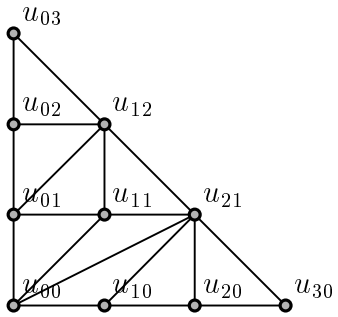
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 783. Vertex: $(4, 1, 2, 2, 3, 5, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

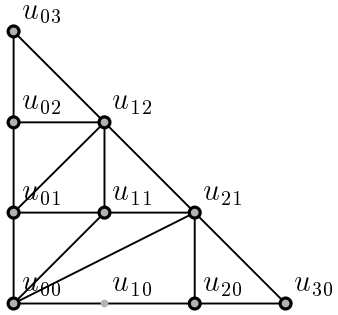
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 784. Vertex: $(4, 1, 3, 0, 4, 5, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

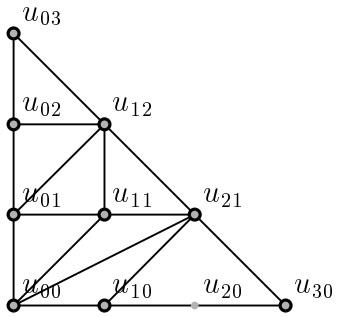
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\ u_{01} + u_{12} &< u_{11} + u_{02} \\ 2 \cdot u_{02} &< u_{01} + u_{03} \\ 3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ u_{11} + u_{01} &< u_{00} + u_{12} \\ 4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \end{aligned}$$

# 785. Vertex: $(4, 2, 0, 3, 3, 5, 3, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | -8 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

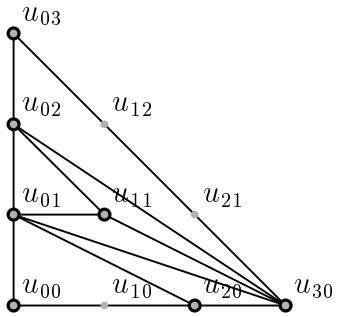
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 1 | 4 | 3 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 786. Vertex: $(3, 6, 3, 0, 2, 0, 5, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

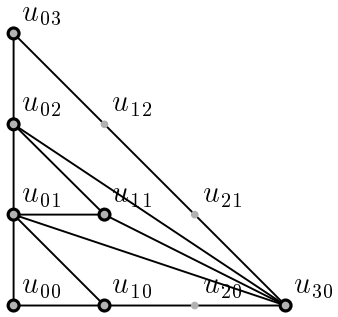
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 787. Vertex: $(3, 7, 0, 3, 1, 0, 5, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

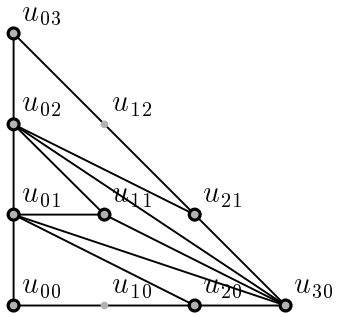
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 788. Vertex: $(3, 4, 3, 0, 2, 3, 5, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

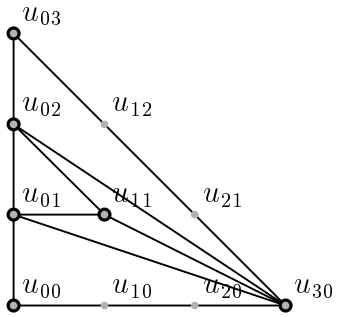
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 789. Vertex: $(3, 8, 0, 0, 3, 0, 5, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

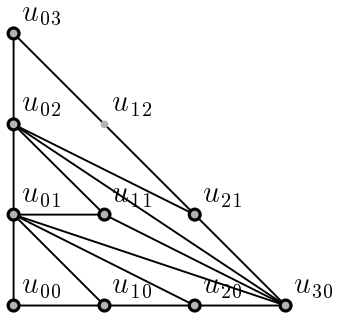
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 790. Vertex: $(3, 4, 2, 2, 1, 3, 5, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

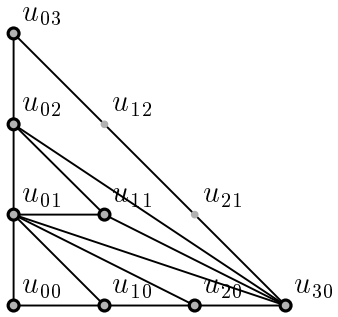
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 791. Vertex: $(3, 6, 2, 2, 1, 0, 5, 0, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

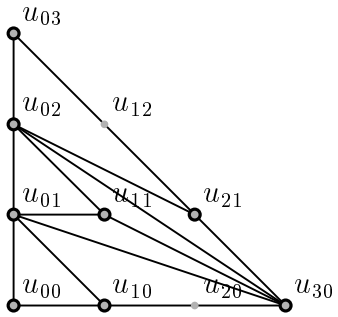
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{11} + u_{03} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 792. Vertex: $(3, 5, 0, 3, 1, 3, 5, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

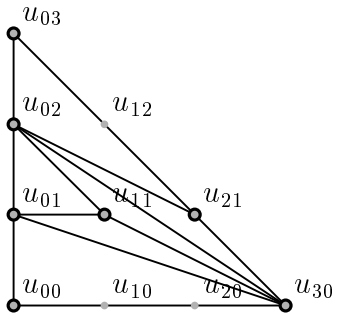
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 793. Vertex: $(3, 6, 0, 0, 3, 3, 5, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

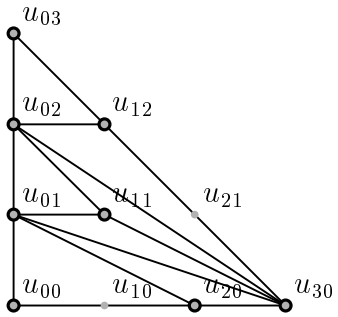
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 794. Vertex: $(3, 5, 3, 0, 2, 0, 5, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

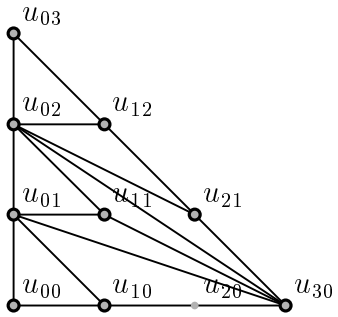
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 795. Vertex: $(3, 5, 0, 3, 1, 2, 5, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

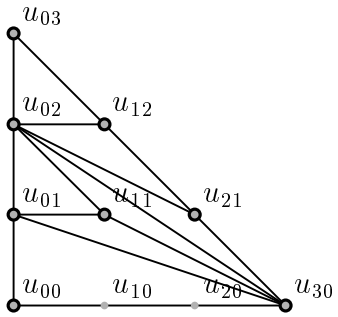
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 796. Vertex: $(3, 6, 0, 0, 3, 2, 5, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

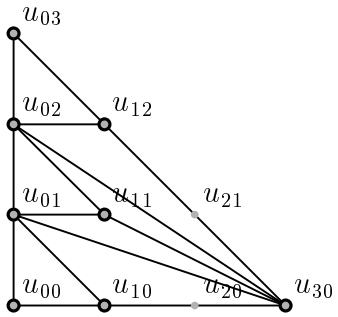
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 797. Vertex: $(3, 6, 0, 3, 1, 0, 5, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

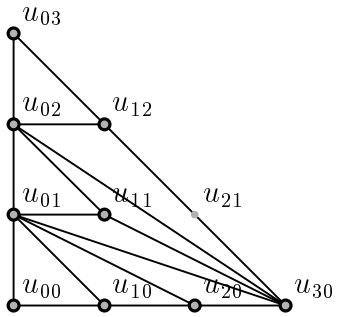
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{10} \\
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 798. Vertex: $(3, 5, 2, 2, 1, 0, 5, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

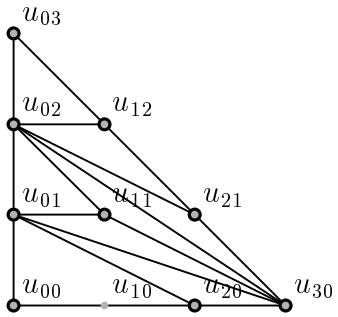
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
u_{30} + u_{01} &< u_{11} + u_{20} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 799. Vertex: $(3, 4, 3, 0, 2, 2, 5, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

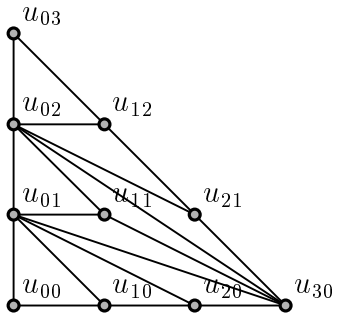
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 800. Vertex: $(3, 4, 2, 2, 1, 2, 5, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

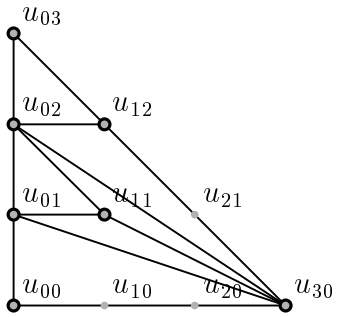
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} &< u_{11} + u_{20} \\
u_{30} + u_{02} &< u_{11} + u_{21} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 801. Vertex: $(3, 7, 0, 0, 3, 0, 5, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{30} - 3 \cdot u_{01} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

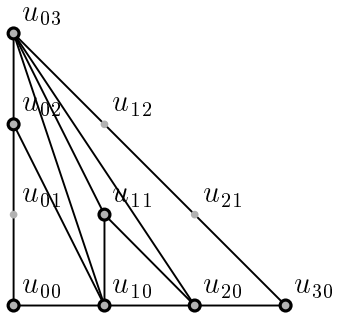
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{01} &< 3 \cdot u_{11} + u_{00} \\
u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
3 \cdot u_{11} &< u_{30} + u_{01} + u_{02}
\end{aligned}$$

# 802. Vertex: $(3, 3, 5, 5, 2, 0, 0, 0, 3, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

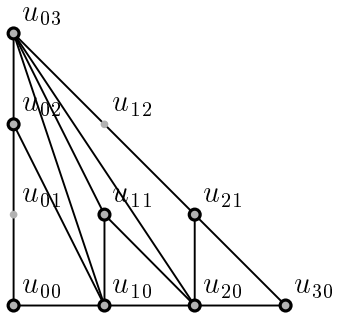
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 803. Vertex: $(3, 1, 5, 5, 2, 3, 0, 0, 3, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

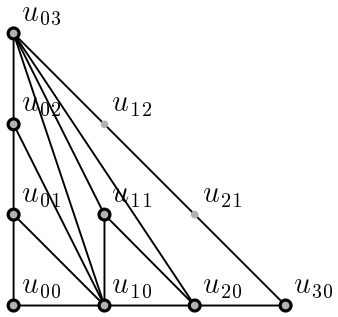
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 804. Vertex: $(3, 3, 5, 5, 1, 0, 2, 0, 2, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

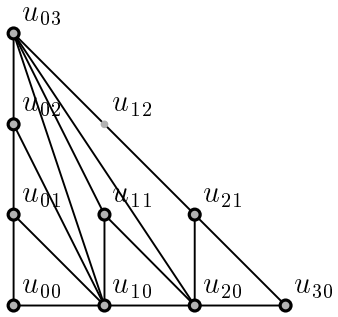
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 805. Vertex: $(3, 1, 5, 5, 1, 3, 2, 0, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

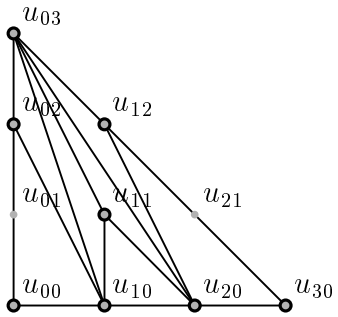
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{10} + u_{03} &< u_{11} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 806. Vertex: $(3, 2, 5, 5, 2, 0, 0, 3, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

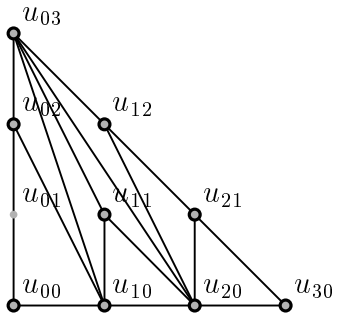
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 807. Vertex: $(3, 1, 5, 5, 2, 2, 0, 2, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

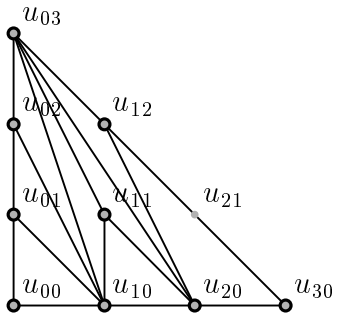
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 808. Vertex: $(3, 2, 5, 5, 1, 0, 2, 3, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

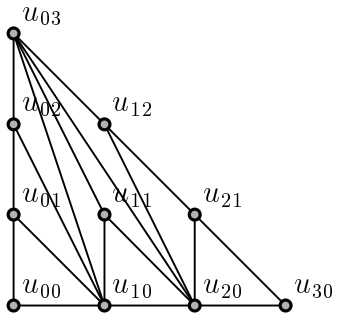
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 809. Vertex: $(3, 1, 5, 5, 1, 2, 2, 2, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

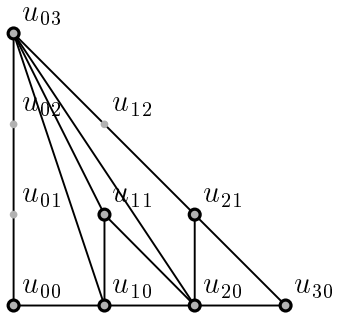
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{03} &< u_{11} + u_{02} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 810. Vertex: $(3, 1, 5, 5, 3, 3, 0, 0, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

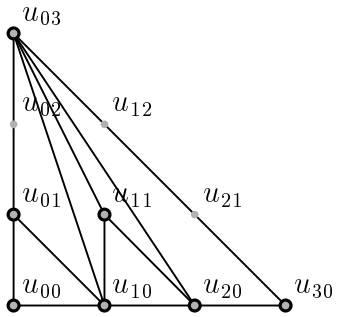
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 811. Vertex: $(3, 3, 5, 5, 1, 0, 3, 0, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

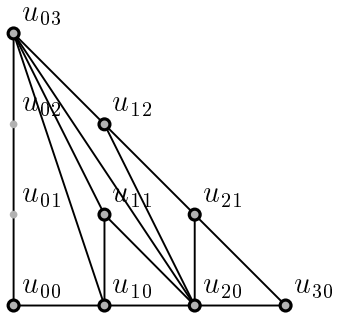
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 812. Vertex: $(3, 1, 5, 5, 3, 2, 0, 2, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

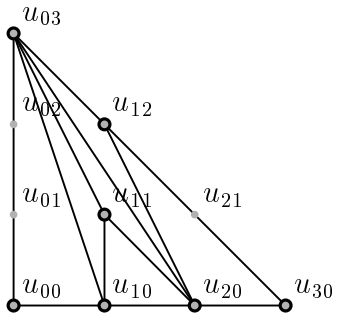
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 813. Vertex: $(3, 2, 5, 5, 3, 0, 0, 3, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

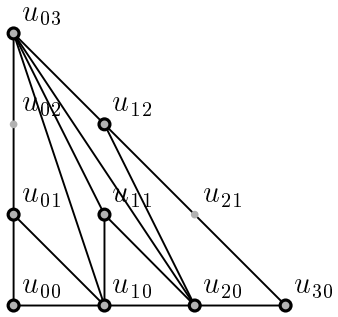
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 814. Vertex: $(3, 2, 5, 5, 1, 0, 3, 3, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

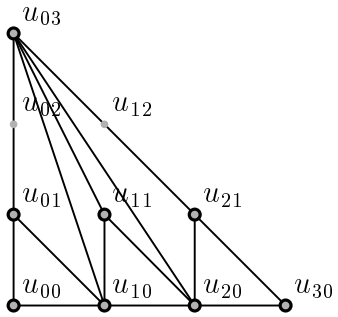
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 815. Vertex: $(3, 1, 5, 5, 1, 3, 3, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

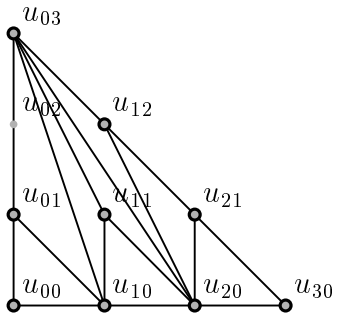
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
2 \cdot u_{20} + u_{03} &< 2 \cdot u_{11} + u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 816. Vertex: $(3, 1, 5, 5, 1, 2, 3, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

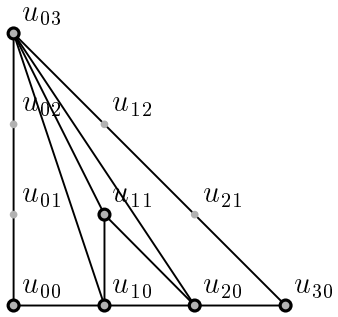
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{03} &< 2 \cdot u_{11} + u_{01} \\
u_{20} + u_{03} &< u_{11} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 817. Vertex: $(3, 3, 5, 5, 3, 0, 0, 0, 0, 8)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{10} - 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | -9 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

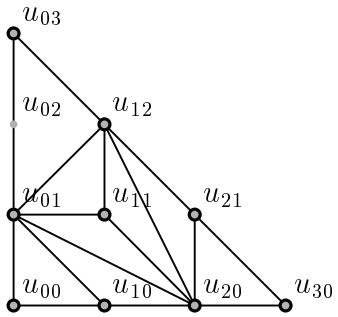
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 3 | 0 | |
| 0 | 0 | 3 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{03} &< 3 \cdot u_{11} + u_{30} \\
3 \cdot u_{10} + u_{03} &< 3 \cdot u_{11} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
3 \cdot u_{11} &< u_{20} + u_{10} + u_{03}
\end{aligned}$$

# 818. Vertex: $(3, 1, 5, 2, 1, 2, 6, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

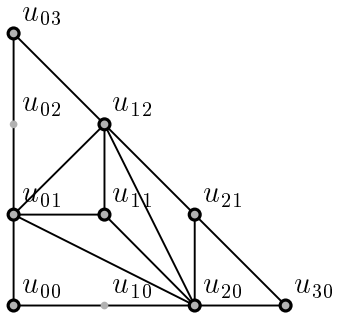
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{11} &< u_{20} + u_{01} + u_{12}
\end{aligned}$$

# 819. Vertex: $(3, 1, 6, 0, 2, 2, 6, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

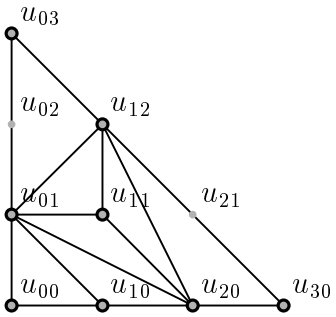
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{11} &< u_{20} + u_{01} + u_{12}
\end{aligned}$$

# 820. Vertex: $(3, 2, 5, 2, 1, 0, 6, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

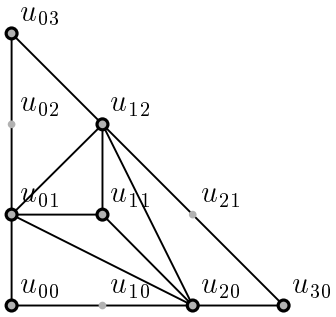
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{11} &< u_{20} + u_{01} + u_{12}
\end{aligned}$$

# 821. Vertex: $(3, 2, 6, 0, 2, 0, 6, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

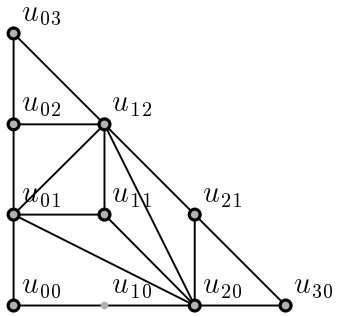
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{03} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{11} &< u_{20} + u_{01} + u_{12}
\end{aligned}$$

# 822. Vertex: $(3, 1, 6, 0, 2, 2, 5, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

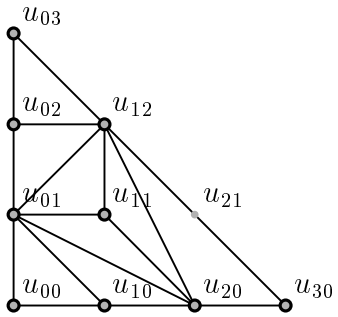
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{11} &< u_{20} + u_{01} + u_{12}
\end{aligned}$$

# 823. Vertex: $(3, 2, 5, 2, 1, 0, 5, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

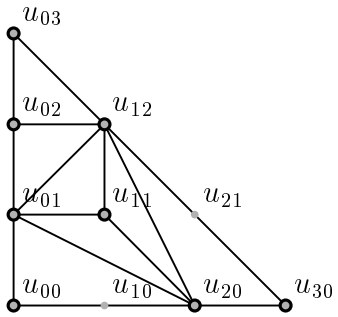
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{11} &< u_{20} + u_{01} + u_{12}
\end{aligned}$$

# 824. Vertex: $(3, 2, 6, 0, 2, 0, 5, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

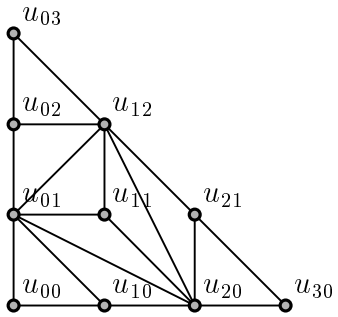
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{12} &< 2 \cdot u_{11} + u_{30} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{11} &< u_{20} + u_{01} + u_{12}
\end{aligned}$$

# 825. Vertex: $(3, 1, 5, 2, 1, 2, 5, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | -9 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

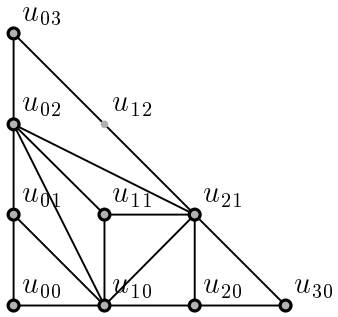
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 3 | 3 | 0 | |
| 0 | 0 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{11} &< u_{20} + u_{01} + u_{12}
\end{aligned}$$

# 826. Vertex: $(3, 1, 2, 5, 1, 6, 2, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

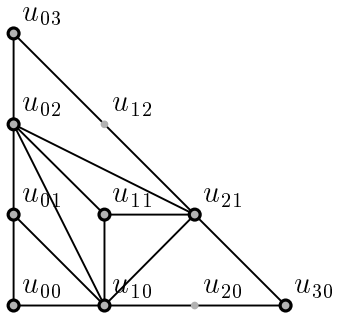
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{11} &< u_{10} + u_{21} + u_{02}
\end{aligned}$$

# 827. Vertex: $(3, 2, 0, 6, 1, 6, 2, 0, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

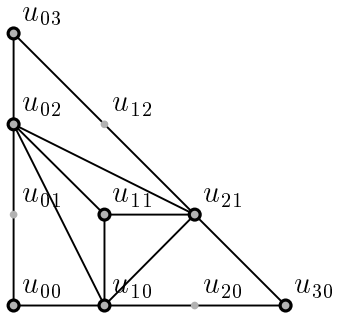
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{11} &< u_{10} + u_{21} + u_{02}
\end{aligned}$$

# 828. Vertex: $(3, 2, 0, 6, 2, 6, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

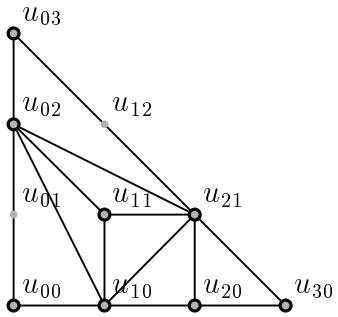
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{11} &< u_{10} + u_{21} + u_{02}
\end{aligned}$$

# 829. Vertex: $(3, 1, 2, 5, 2, 6, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

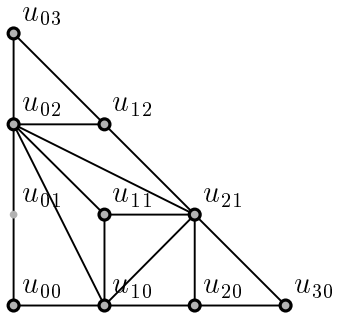
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{11} + u_{03} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{11} &< u_{10} + u_{21} + u_{02}
\end{aligned}$$

# 830. Vertex: $(3, 1, 2, 5, 2, 5, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

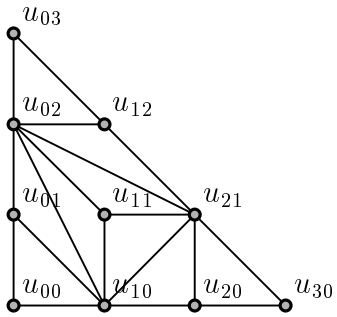
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{11} &< u_{10} + u_{21} + u_{02}
\end{aligned}$$

# 831. Vertex: $(3, 1, 2, 5, 1, 5, 2, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

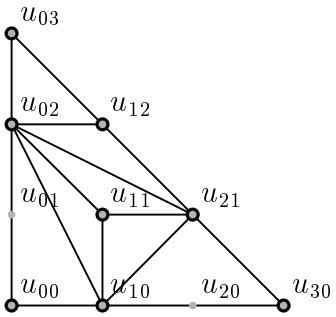
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{11} &< u_{10} + u_{21} + u_{02}
\end{aligned}$$

# 832. Vertex: $(3, 2, 0, 6, 2, 5, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

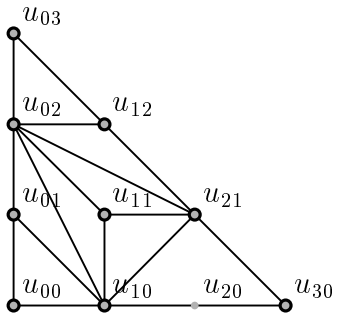
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{11} &< u_{10} + u_{21} + u_{02}
\end{aligned}$$

# 833. Vertex: $(3, 2, 0, 6, 1, 5, 2, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

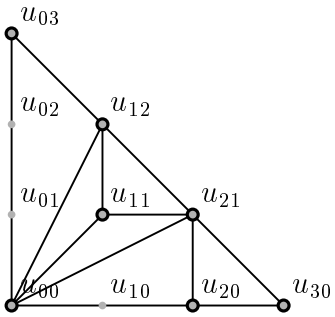
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 0 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{30} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{11} &< u_{10} + u_{21} + u_{02}
\end{aligned}$$

# 834. Vertex: $(3, 1, 3, 0, 7, 5, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

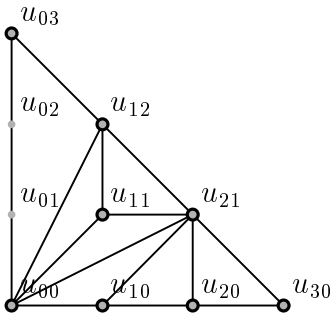
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 835. Vertex: $(3, 1, 2, 2, 6, 5, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

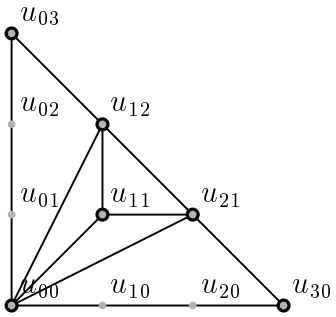
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 836. Vertex: $(3, 3, 0, 0, 8, 5, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

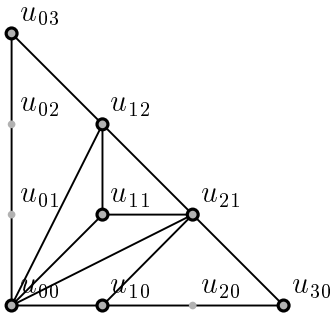
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 837. Vertex: $(3, 2, 0, 3, 6, 5, 0, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

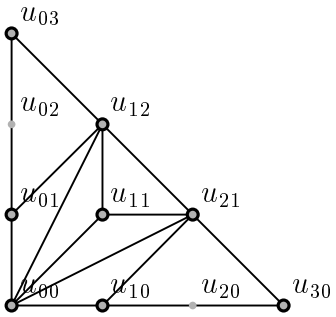
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{11} + u_{03} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 838. Vertex: $(3, 2, 0, 3, 4, 5, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

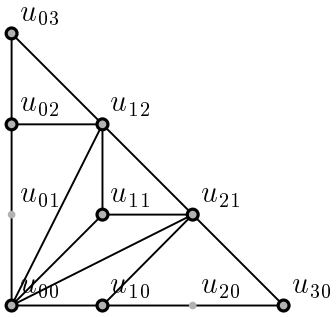
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 839. Vertex: $(3, 2, 0, 3, 5, 5, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

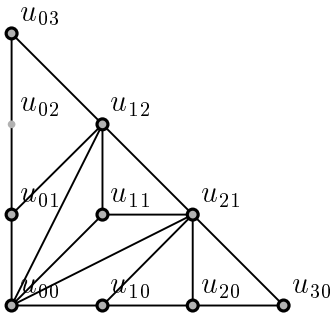
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 840. Vertex: $(3, 1, 2, 2, 4, 5, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

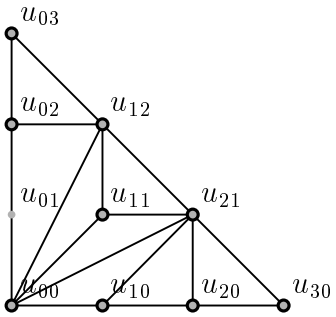
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 841. Vertex: $(3, 1, 2, 2, 5, 5, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

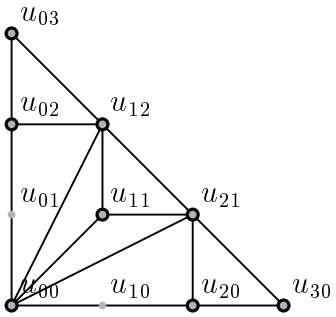
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 842. Vertex: $(3, 1, 3, 0, 6, 5, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

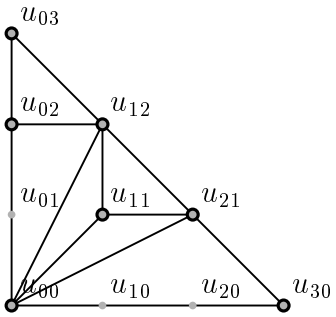
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 843. Vertex: $(3, 3, 0, 0, 7, 5, 0, 5, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

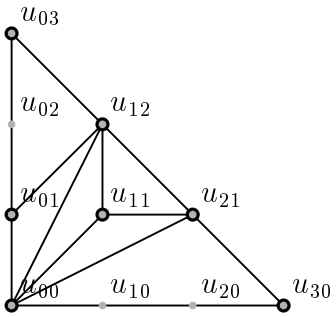
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 844. Vertex: $(3, 3, 0, 0, 6, 5, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

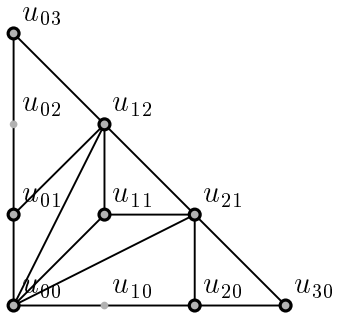
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 845. Vertex: $(3, 1, 3, 0, 5, 5, 3, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

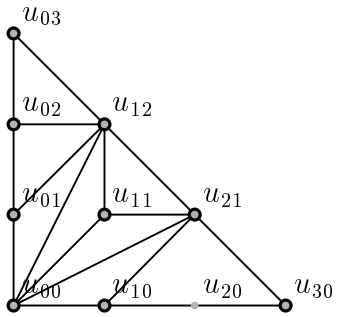
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 846. Vertex: $(3, 2, 0, 3, 4, 5, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

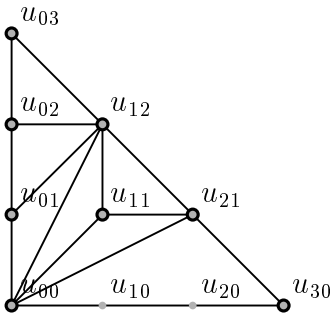
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 847. Vertex: $(3, 3, 0, 0, 6, 5, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

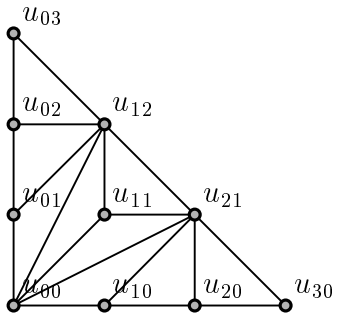
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 3 \cdot u_{21} &< 3 \cdot u_{11} + u_{30} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 848. Vertex: $(3, 1, 2, 2, 4, 5, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

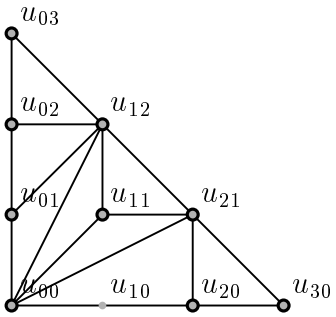
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 849. Vertex: $(3, 1, 3, 0, 5, 5, 2, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | -9 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

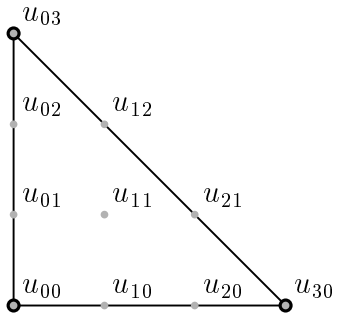
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 3 | 3 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

# 850. Vertex: $(0, 9, 0, 0, 9, 0, 0, 0, 0, 9)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{00} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

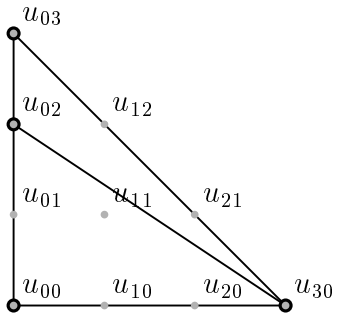
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 4 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{30} + 3 \cdot u_{00} + 3 \cdot u_{03} &< 9 \cdot u_{11} \\
3 \cdot u_{00} + 6 \cdot u_{03} &< 9 \cdot u_{02} \\
6 \cdot u_{00} + 3 \cdot u_{03} &< 9 \cdot u_{01} \\
3 \cdot u_{30} + 6 \cdot u_{00} &< 9 \cdot u_{10} \\
3 \cdot u_{30} + 6 \cdot u_{03} &< 9 \cdot u_{12} \\
6 \cdot u_{30} + 3 \cdot u_{00} &< 9 \cdot u_{20} \\
6 \cdot u_{30} + 3 \cdot u_{03} &< 9 \cdot u_{21}
\end{aligned}$$

# 851. Vertex: $(0, 9, 0, 0, 6, 0, 0, 0, 9, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 2 \cdot u_{00} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

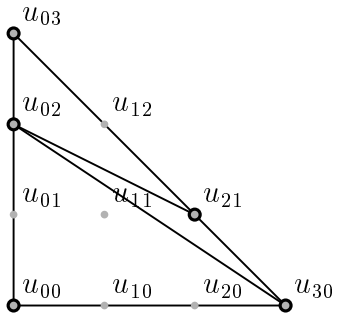
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{30} + u_{00} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
9 \cdot u_{02} &< 3 \cdot u_{00} + 6 \cdot u_{03} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
3 \cdot u_{00} + 3 \cdot u_{02} &< 6 \cdot u_{01} \\
2 \cdot u_{30} + 4 \cdot u_{00} &< 6 \cdot u_{10} \\
4 \cdot u_{30} + 2 \cdot u_{00} &< 6 \cdot u_{20}
\end{aligned}$$

# 852. Vertex: $(0, 7, 0, 0, 6, 3, 0, 0, 9, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 2 \cdot u_{00} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

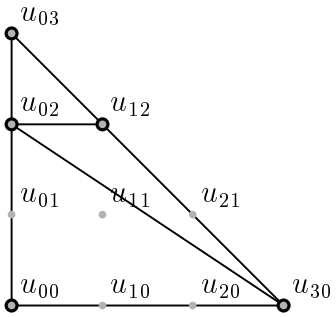
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{30} + u_{00} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{00} + 3 \cdot u_{02} &< 6 \cdot u_{01} \\
2 \cdot u_{30} + 4 \cdot u_{00} &< 6 \cdot u_{10} \\
4 \cdot u_{30} + 2 \cdot u_{00} &< 6 \cdot u_{20} \\
4 \cdot u_{30} + 3 \cdot u_{02} &< u_{00} + 6 \cdot u_{21}
\end{aligned}$$

# 853. Vertex: $(0, 8, 0, 0, 6, 0, 0, 3, 9, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 2 \cdot u_{00} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

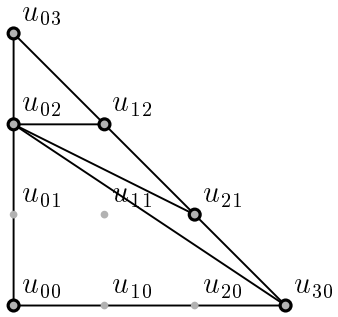
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{30} + u_{00} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{00} + 3 \cdot u_{02} &< 6 \cdot u_{01} \\
2 \cdot u_{30} + 4 \cdot u_{00} &< 6 \cdot u_{10} \\
4 \cdot u_{30} + 2 \cdot u_{00} &< 6 \cdot u_{20} \\
2 \cdot u_{30} + 6 \cdot u_{02} &< 2 \cdot u_{00} + 6 \cdot u_{12}
\end{aligned}$$

# 854. Vertex: $(0, 7, 0, 0, 6, 2, 0, 2, 9, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 2 \cdot u_{00} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

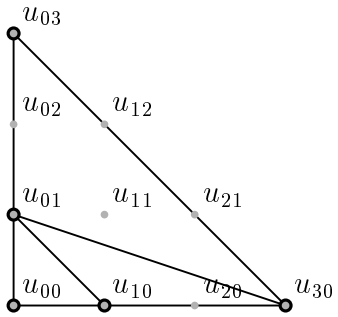
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{30} + u_{00} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{00} + 3 \cdot u_{02} &< 6 \cdot u_{01} \\
2 \cdot u_{30} + 4 \cdot u_{00} &< 6 \cdot u_{10} \\
4 \cdot u_{30} + 2 \cdot u_{00} &< 6 \cdot u_{20} \\
4 \cdot u_{30} + 3 \cdot u_{02} &< u_{00} + 6 \cdot u_{21}
\end{aligned}$$

# 855. Vertex: $(0, 8, 0, 3, 1, 0, 9, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 6 \cdot u_{01} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

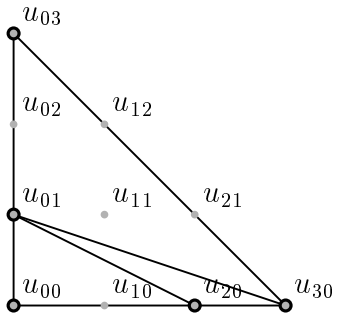
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{30} + 3 \cdot u_{01} + u_{03} &< 6 \cdot u_{11} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{01} + 3 \cdot u_{03} &< 6 \cdot u_{02} \\
2 \cdot u_{30} + 4 \cdot u_{03} &< 6 \cdot u_{12} \\
2 \cdot u_{30} + 6 \cdot u_{01} &< 6 \cdot u_{10} + 2 \cdot u_{03} \\
4 \cdot u_{30} + 2 \cdot u_{03} &< 6 \cdot u_{21}
\end{aligned}$$

# 856. Vertex: $(0, 7, 3, 0, 2, 0, 9, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 6 \cdot u_{01} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

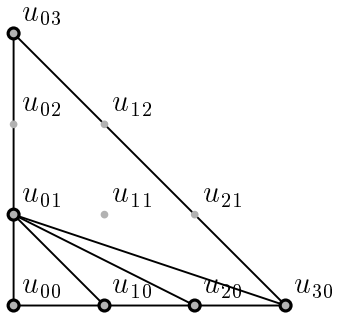
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{30} + 3 \cdot u_{01} + u_{03} &< 6 \cdot u_{11} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{01} + 3 \cdot u_{03} &< 6 \cdot u_{02} \\
2 \cdot u_{30} + 4 \cdot u_{03} &< 6 \cdot u_{12} \\
4 \cdot u_{30} + 2 \cdot u_{03} &< 6 \cdot u_{21} \\
4 \cdot u_{30} + 3 \cdot u_{01} &< 6 \cdot u_{20} + u_{03}
\end{aligned}$$

# 857. Vertex: $(0, 7, 2, 2, 1, 0, 9, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 6 \cdot u_{01} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

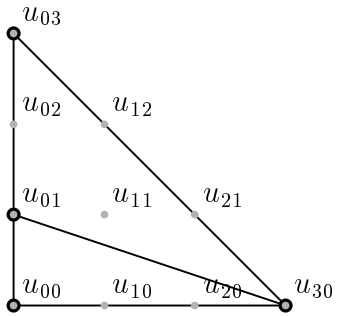
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{30} + 3 \cdot u_{01} + u_{03} &< 6 \cdot u_{11} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{01} + 3 \cdot u_{03} &< 6 \cdot u_{02} \\
2 \cdot u_{30} + 4 \cdot u_{03} &< 6 \cdot u_{12} \\
4 \cdot u_{30} + 2 \cdot u_{03} &< 6 \cdot u_{21} \\
4 \cdot u_{30} + 3 \cdot u_{01} &< 6 \cdot u_{20} + u_{03}
\end{aligned}$$

# 858. Vertex: $(0, 9, 0, 0, 3, 0, 9, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 6 \cdot u_{01} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

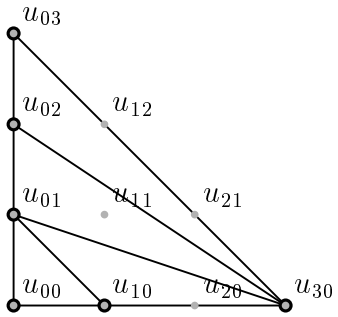
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{30} + 3 \cdot u_{01} + u_{03} &< 6 \cdot u_{11} \\
9 \cdot u_{01} &< 6 \cdot u_{00} + 3 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
3 \cdot u_{01} + 3 \cdot u_{03} &< 6 \cdot u_{02} \\
2 \cdot u_{30} + 4 \cdot u_{03} &< 6 \cdot u_{12} \\
4 \cdot u_{30} + 2 \cdot u_{03} &< 6 \cdot u_{21}
\end{aligned}$$

# 859. Vertex: $(0, 8, 0, 3, 1, 0, 6, 0, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

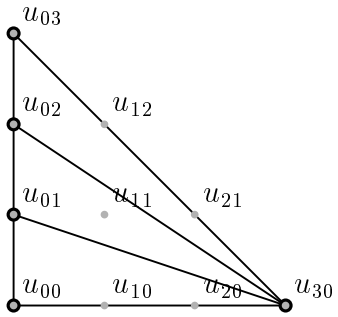
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
6 \cdot u_{02} &< 3 \cdot u_{01} + 3 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{30} + 4 \cdot u_{01} &< 3 \cdot u_{10} + 2 \cdot u_{02}
\end{aligned}$$

# 860. Vertex: $(0, 9, 0, 0, 3, 0, 6, 0, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

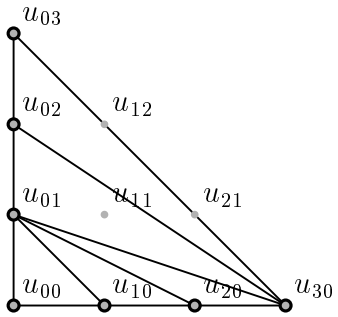
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
6 \cdot u_{01} &< 3 \cdot u_{00} + 3 \cdot u_{02} \\
6 \cdot u_{02} &< 3 \cdot u_{01} + 3 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12}
\end{aligned}$$

# 861. Vertex: $(0, 7, 2, 2, 1, 0, 6, 0, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

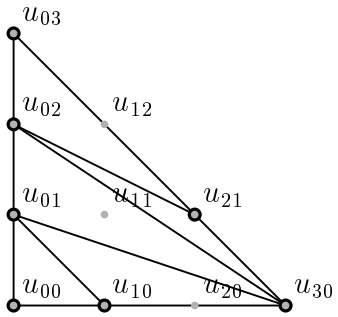
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
6 \cdot u_{02} &< 3 \cdot u_{01} + 3 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 3 \cdot u_{20} + u_{02}
\end{aligned}$$

# 862. Vertex: $(0, 6, 0, 3, 1, 3, 6, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

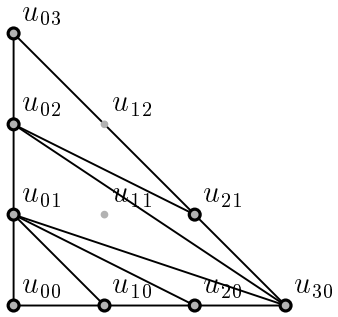
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{30} + 4 \cdot u_{01} &< 3 \cdot u_{10} + 2 \cdot u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 863. Vertex: $(0, 5, 2, 2, 1, 3, 6, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

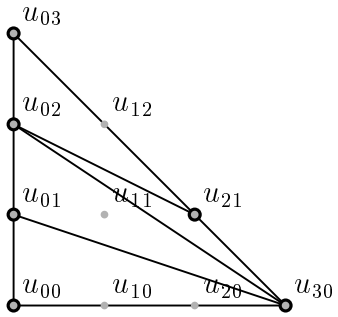
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 3 \cdot u_{20} + u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 864. Vertex: $(0, 7, 0, 0, 3, 3, 6, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

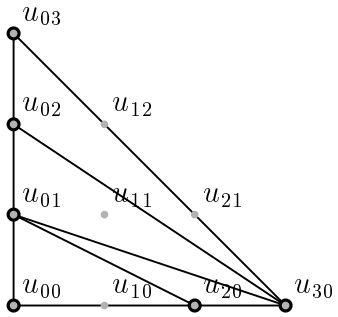
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
6 \cdot u_{01} &< 3 \cdot u_{00} + 3 \cdot u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 865. Vertex: $(0, 7, 3, 0, 2, 0, 6, 0, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

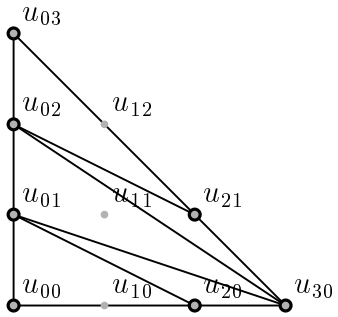
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
6 \cdot u_{02} &< 3 \cdot u_{01} + 3 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 3 \cdot u_{20} + u_{02}
\end{aligned}$$

# 866. Vertex: $(0, 5, 3, 0, 2, 3, 6, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

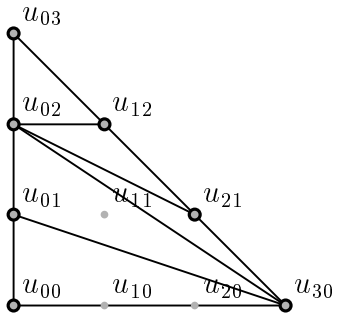
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 3 \cdot u_{20} + u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 867. Vertex: $(0, 7, 0, 0, 3, 2, 6, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

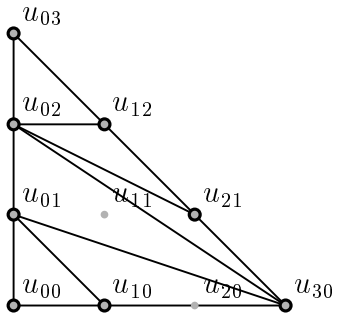
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
6 \cdot u_{01} &< 3 \cdot u_{00} + 3 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 868. Vertex: $(0, 6, 0, 3, 1, 2, 6, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

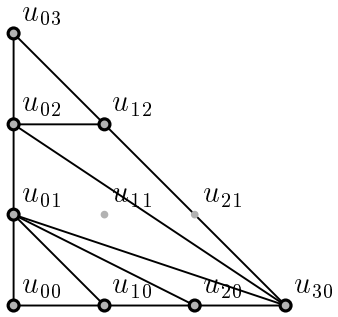
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{30} + 4 \cdot u_{01} &< 3 \cdot u_{10} + 2 \cdot u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 869. Vertex: $(0, 6, 2, 2, 1, 0, 6, 3, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

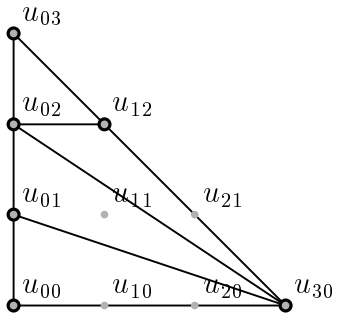
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + 4 \cdot u_{02} &< 2 \cdot u_{01} + 3 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 3 \cdot u_{20} + u_{02}
\end{aligned}$$

# 870. Vertex: $(0, 8, 0, 0, 3, 0, 6, 3, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

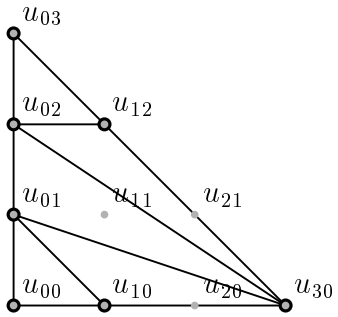
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
6 \cdot u_{01} &< 3 \cdot u_{00} + 3 \cdot u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 4 \cdot u_{02} &< 2 \cdot u_{01} + 3 \cdot u_{12}
\end{aligned}$$

# 871. Vertex: $(0, 7, 0, 3, 1, 0, 6, 3, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

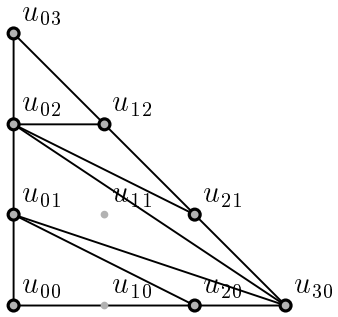
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + 4 \cdot u_{01} &< 3 \cdot u_{10} + 2 \cdot u_{02} \\
u_{30} + 4 \cdot u_{02} &< 2 \cdot u_{01} + 3 \cdot u_{12}
\end{aligned}$$

# 872. Vertex: $(0, 5, 3, 0, 2, 2, 6, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

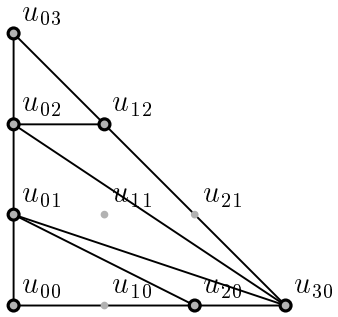
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 3 \cdot u_{20} + u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 873. Vertex: $(0, 6, 3, 0, 2, 0, 6, 3, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

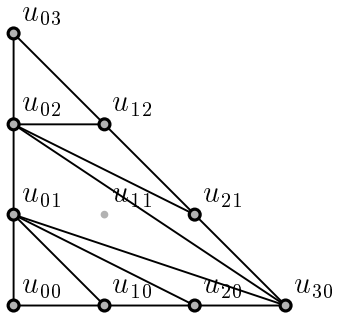
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{30} + 4 \cdot u_{02} &< 2 \cdot u_{01} + 3 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 3 \cdot u_{20} + u_{02}
\end{aligned}$$

# 874. Vertex: $(0, 5, 2, 2, 1, 2, 6, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{30} + 4 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

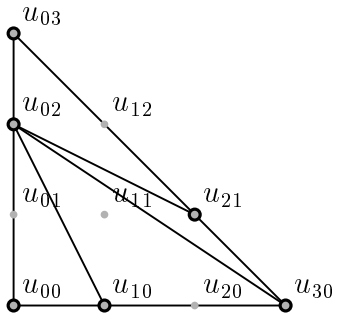
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 4 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{01} + u_{02} &< 3 \cdot u_{11} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 3 \cdot u_{20} + u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 875. Vertex: $(0, 5, 0, 6, 2, 3, 0, 0, 9, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 3 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

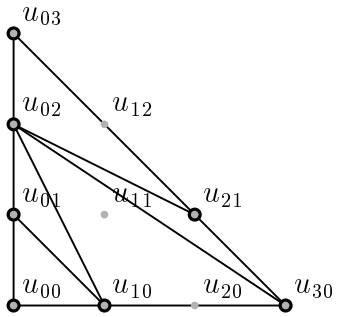
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 3 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{10} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
6 \cdot u_{10} &< 2 \cdot u_{30} + 4 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
3 \cdot u_{30} + 2 \cdot u_{02} &< u_{10} + 4 \cdot u_{21}
\end{aligned}$$

# 876. Vertex: $(0, 5, 0, 6, 1, 3, 2, 0, 8, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 3 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

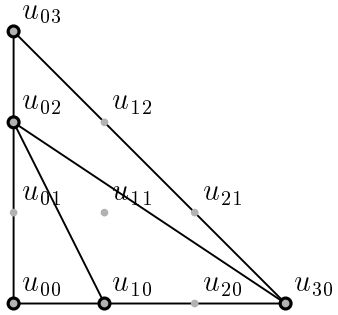
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 3 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{10} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{10} + 2 \cdot u_{02} &< u_{30} + 4 \cdot u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
3 \cdot u_{30} + 2 \cdot u_{02} &< u_{10} + 4 \cdot u_{21}
\end{aligned}$$

# 877. Vertex: $(0, 7, 0, 6, 2, 0, 0, 0, 9, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 3 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

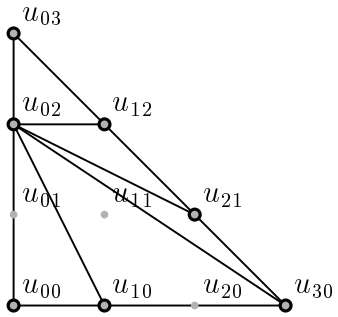
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 3 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{10} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
6 \cdot u_{10} &< 2 \cdot u_{30} + 4 \cdot u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
u_{30} + 6 \cdot u_{02} &< 3 \cdot u_{10} + 4 \cdot u_{03}
\end{aligned}$$

# 878. Vertex: $(0, 5, 0, 6, 2, 2, 0, 2, 9, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 3 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

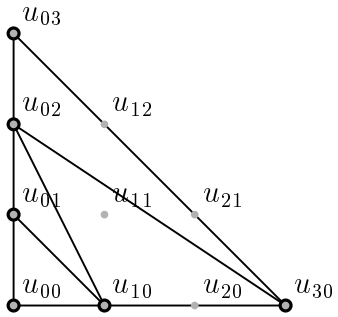
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 3 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{10} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
6 \cdot u_{10} &< 2 \cdot u_{30} + 4 \cdot u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
3 \cdot u_{30} + 2 \cdot u_{02} &< u_{10} + 4 \cdot u_{21}
\end{aligned}$$

# 879. Vertex: $(0, 7, 0, 6, 1, 0, 2, 0, 8, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 3 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

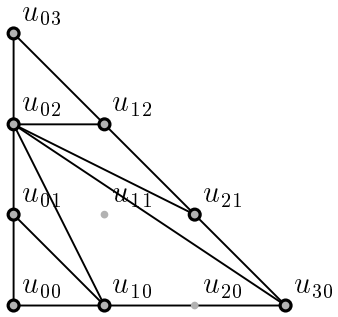
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 3 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{10} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{10} + 2 \cdot u_{02} &< u_{30} + 4 \cdot u_{01} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
u_{30} + 6 \cdot u_{02} &< 3 \cdot u_{10} + 4 \cdot u_{03}
\end{aligned}$$

# 880. Vertex: $(0, 5, 0, 6, 1, 2, 2, 2, 8, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 3 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

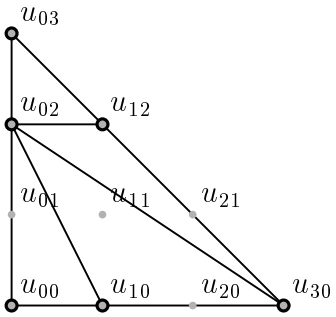
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 3 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{10} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{10} + 2 \cdot u_{02} &< u_{30} + 4 \cdot u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
3 \cdot u_{30} + 2 \cdot u_{02} &< u_{10} + 4 \cdot u_{21}
\end{aligned}$$

# 881. Vertex: $(0, 6, 0, 6, 2, 0, 0, 3, 9, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 3 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

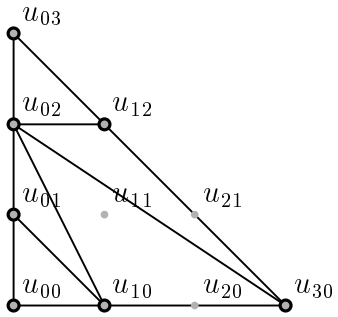
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 3 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{10} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
6 \cdot u_{10} &< 2 \cdot u_{30} + 4 \cdot u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 4 \cdot u_{02} &< 2 \cdot u_{10} + 4 \cdot u_{12}
\end{aligned}$$

# 882. Vertex: $(0, 6, 0, 6, 1, 0, 2, 3, 8, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 3 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

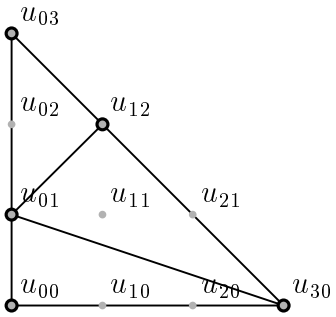
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 3 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + u_{10} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{10} + 2 \cdot u_{02} &< u_{30} + 4 \cdot u_{01} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 4 \cdot u_{02} &< 2 \cdot u_{10} + 4 \cdot u_{12}
\end{aligned}$$

# 883. Vertex: $(0, 7, 0, 0, 3, 0, 9, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 6 \cdot u_{01} + 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

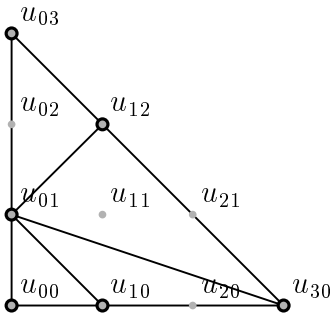
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} + u_{12} &< 4 \cdot u_{11} \\
6 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + 6 \cdot u_{01} &< 4 \cdot u_{00} + 3 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 884. Vertex: $(0, 6, 0, 3, 1, 0, 9, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 6 \cdot u_{01} + 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

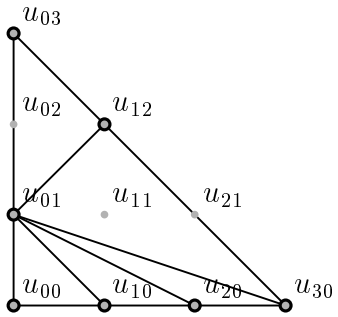
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} + u_{12} &< 4 \cdot u_{11} \\
6 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21} \\
2 \cdot u_{30} + 4 \cdot u_{01} &< 4 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 885. Vertex: $(0, 5, 2, 2, 1, 0, 9, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 6 \cdot u_{01} + 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

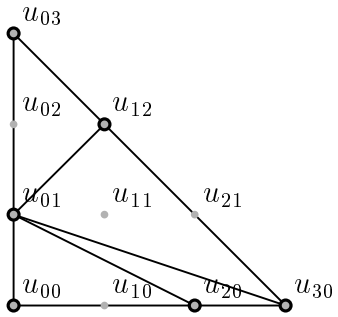
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} + u_{12} &< 4 \cdot u_{11} \\
6 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21} \\
3 \cdot u_{30} + 2 \cdot u_{01} &< 4 \cdot u_{20} + u_{12}
\end{aligned}$$

# 886. Vertex: $(0, 5, 3, 0, 2, 0, 9, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 6 \cdot u_{01} + 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

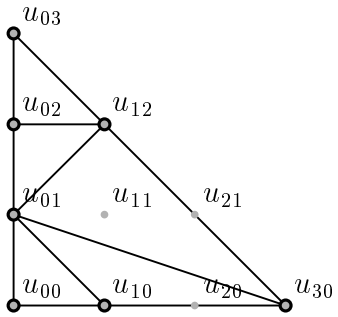
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} + u_{12} &< 4 \cdot u_{11} \\
6 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21} \\
3 \cdot u_{30} + 2 \cdot u_{01} &< 4 \cdot u_{20} + u_{12}
\end{aligned}$$

# 887. Vertex: $(0, 6, 0, 3, 1, 0, 8, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 6 \cdot u_{01} + 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

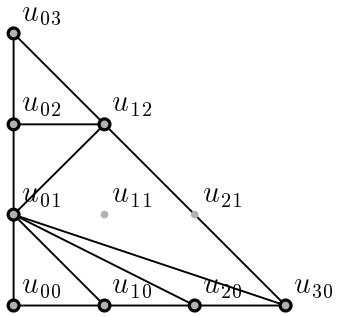
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} + u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{01} + 3 \cdot u_{12} &< u_{30} + 4 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21} \\
2 \cdot u_{30} + 4 \cdot u_{01} &< 4 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 888. Vertex: $(0, 5, 2, 2, 1, 0, 8, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 6 \cdot u_{01} + 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

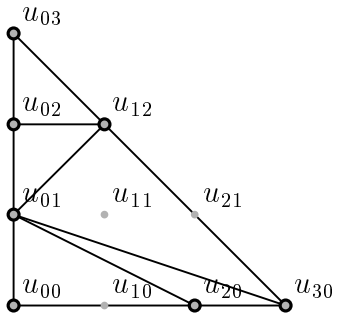
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} + u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{01} + 3 \cdot u_{12} &< u_{30} + 4 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21} \\
3 \cdot u_{30} + 2 \cdot u_{01} &< 4 \cdot u_{20} + u_{12}
\end{aligned}$$

# 889. Vertex: $(0, 5, 3, 0, 2, 0, 8, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 6 \cdot u_{01} + 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

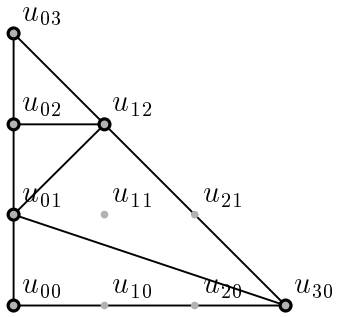
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} + u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{01} + 3 \cdot u_{12} &< u_{30} + 4 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21} \\
3 \cdot u_{30} + 2 \cdot u_{01} &< 4 \cdot u_{20} + u_{12}
\end{aligned}$$

# 890. Vertex: $(0, 7, 0, 0, 3, 0, 8, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{30} + 6 \cdot u_{01} + 3 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

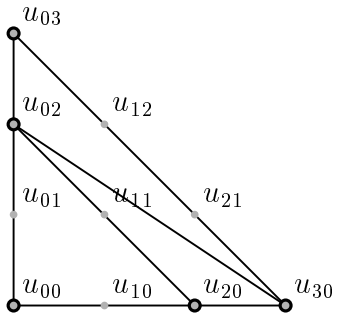
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 3 | | |
| 1 | 6 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 3 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{01} + u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{01} + 3 \cdot u_{12} &< u_{30} + 4 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 6 \cdot u_{01} &< 4 \cdot u_{00} + 3 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 891. Vertex: $(0, 5, 6, 0, 4, 0, 0, 0, 9, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + u_{00} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

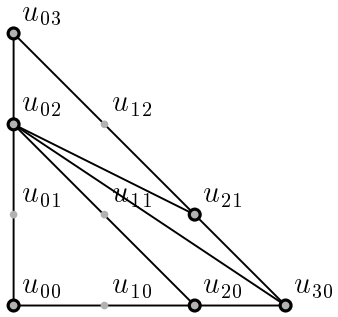
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 1 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
6 \cdot u_{20} &< 4 \cdot u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
2 \cdot u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{20} + 2 \cdot u_{03}
\end{aligned}$$

# 892. Vertex: $(0, 3, 6, 0, 4, 3, 0, 0, 9, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + u_{00} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

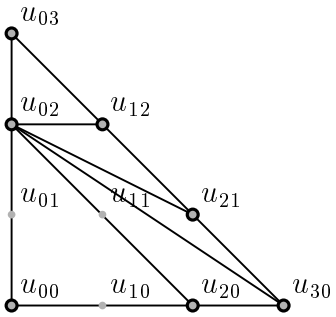
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 1 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
6 \cdot u_{20} &< 4 \cdot u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
2 \cdot u_{30} + u_{02} &< u_{20} + 2 \cdot u_{21}
\end{aligned}$$

# 893. Vertex: $(0, 3, 6, 0, 4, 2, 0, 2, 9, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + u_{00} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

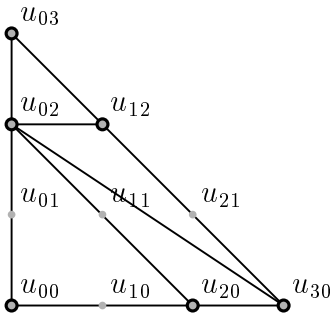
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 1 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
6 \cdot u_{20} &< 4 \cdot u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
2 \cdot u_{30} + u_{02} &< u_{20} + 2 \cdot u_{21}
\end{aligned}$$

# 894. Vertex: $(0, 4, 6, 0, 4, 0, 0, 3, 9, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + u_{00} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

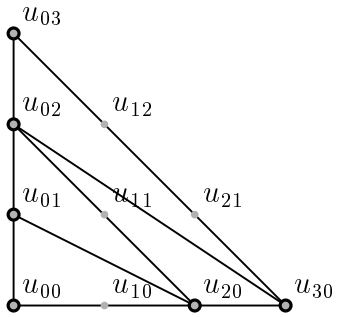
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 1 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
6 \cdot u_{20} &< 4 \cdot u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{20} + 2 \cdot u_{12}
\end{aligned}$$

# 895. Vertex: $(0, 5, 6, 0, 2, 0, 4, 0, 7, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + 2 \cdot u_{01} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

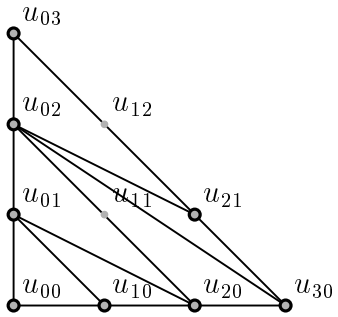
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{20} + 2 \cdot u_{03}
\end{aligned}$$

# 896. Vertex: $(0, 3, 5, 2, 1, 3, 4, 0, 7, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + 2 \cdot u_{01} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

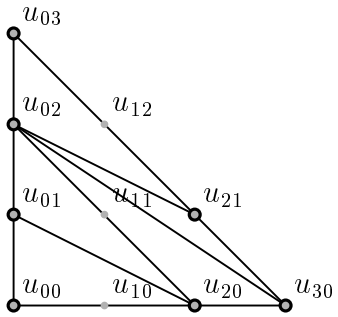
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{30} + u_{02} &< u_{20} + 2 \cdot u_{21}
\end{aligned}$$

# 897. Vertex: $(0, 3, 6, 0, 2, 3, 4, 0, 7, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + 2 \cdot u_{01} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

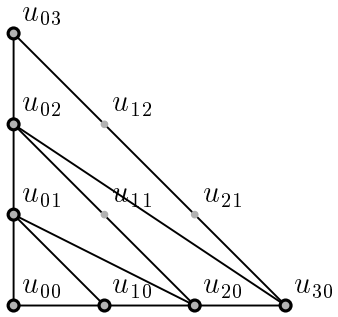
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{02} &< u_{20} + 2 \cdot u_{21}
\end{aligned}$$

# 898. Vertex: $(0, 5, 5, 2, 1, 0, 4, 0, 7, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + 2 \cdot u_{01} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

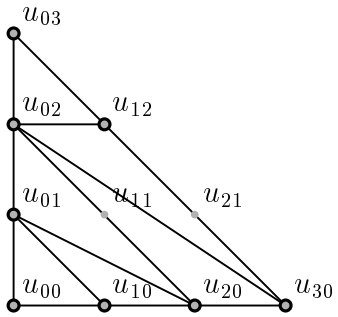
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{20} + 2 \cdot u_{03}
\end{aligned}$$

# 899. Vertex: $(0, 4, 5, 2, 1, 0, 4, 3, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + 2 \cdot u_{01} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

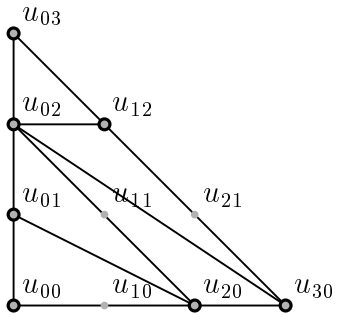
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{20} + 2 \cdot u_{12}
\end{aligned}$$

# 900. Vertex: $(0, 4, 6, 0, 2, 0, 4, 3, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + 2 \cdot u_{01} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

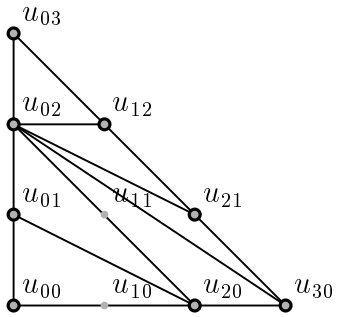
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{20} + 2 \cdot u_{12}
\end{aligned}$$

# 901. Vertex: $(0, 3, 6, 0, 2, 2, 4, 2, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + 2 \cdot u_{01} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

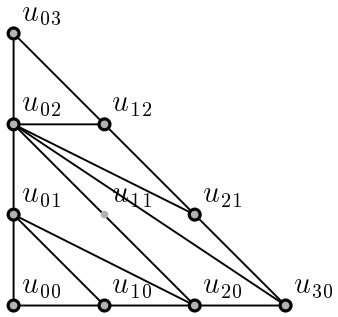
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{30} + u_{02} &< u_{20} + 2 \cdot u_{21}
\end{aligned}$$

# 902. Vertex: $(0, 3, 5, 2, 1, 2, 4, 2, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{20} + 2 \cdot u_{01} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

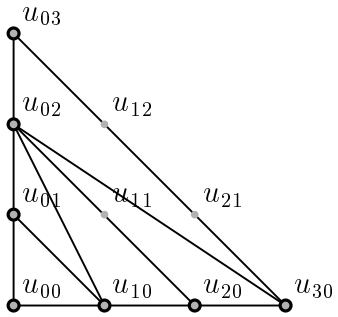
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 3 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{30} + u_{02} &< u_{20} + 2 \cdot u_{21}
\end{aligned}$$

# 903. Vertex: $(0, 5, 4, 4, 1, 0, 2, 0, 8, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{20} + 2 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

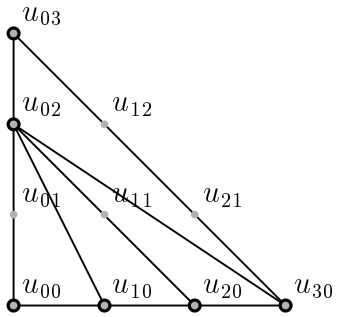
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 2 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{20} + 2 \cdot u_{03}
\end{aligned}$$

# 904. Vertex: $(0, 5, 4, 4, 2, 0, 0, 0, 9, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{20} + 2 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

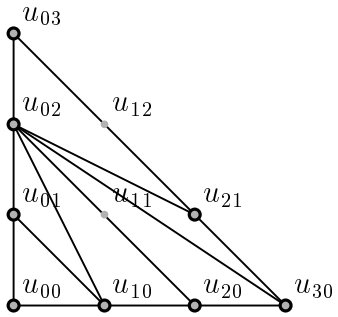
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 2 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + 3 \cdot u_{02} &< 3 \cdot u_{20} + 2 \cdot u_{03}
\end{aligned}$$

# 905. Vertex: $(0, 3, 4, 4, 1, 3, 2, 0, 8, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{20} + 2 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

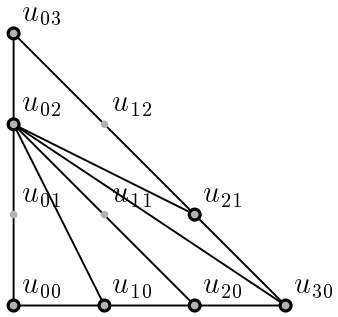
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 2 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{02} &< u_{20} + 2 \cdot u_{21}
\end{aligned}$$

# 906. Vertex: $(0, 3, 4, 4, 2, 3, 0, 0, 9, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{20} + 2 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

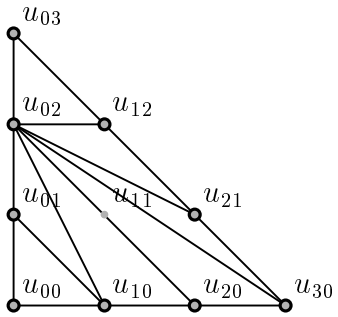
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 2 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{02} &< u_{20} + 2 \cdot u_{21}
\end{aligned}$$

# 907. Vertex: $(0, 3, 4, 4, 1, 2, 2, 2, 8, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{20} + 2 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

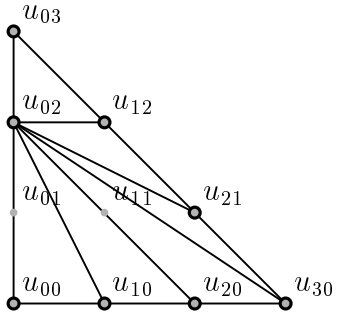
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 2 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{30} + u_{02} &< u_{20} + 2 \cdot u_{21}
\end{aligned}$$

# 908. Vertex: $(0, 3, 4, 4, 2, 2, 0, 2, 9, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{20} + 2 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

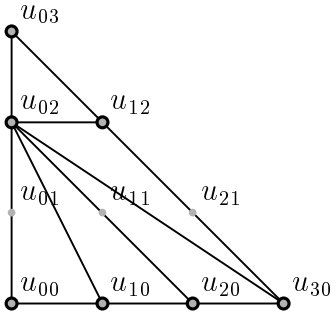
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 2 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{30} + u_{02} &< u_{20} + 2 \cdot u_{21}
\end{aligned}$$

# 909. Vertex: $(0, 4, 4, 4, 2, 0, 0, 3, 9, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{20} + 2 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

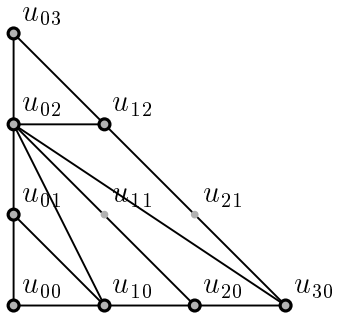
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 2 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{20} + 2 \cdot u_{12}
\end{aligned}$$

# 910. Vertex: $(0, 4, 4, 4, 1, 0, 2, 3, 8, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{20} + 2 \cdot u_{10} + 6 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

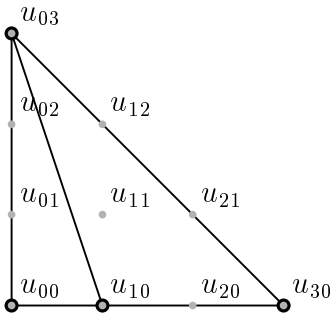
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 6 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 2 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{02} &< 2 \cdot u_{20} + 2 \cdot u_{12}
\end{aligned}$$

# 911. Vertex: $(0, 6, 0, 9, 3, 0, 0, 0, 0, 9)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 6 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

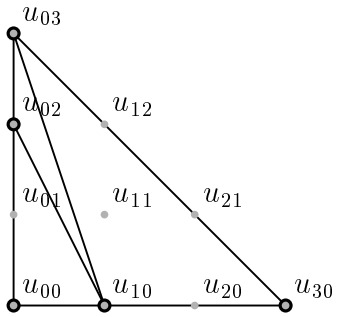
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 6 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{10} + 2 \cdot u_{03} &< 6 \cdot u_{11} \\
9 \cdot u_{10} &< 3 \cdot u_{30} + 6 \cdot u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{30} + 4 \cdot u_{03} &< 6 \cdot u_{12} \\
3 \cdot u_{30} + 3 \cdot u_{10} &< 6 \cdot u_{20} \\
4 \cdot u_{30} + 2 \cdot u_{03} &< 6 \cdot u_{21}
\end{aligned}$$

# 912. Vertex: $(0, 6, 0, 9, 2, 0, 0, 0, 3, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 6 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

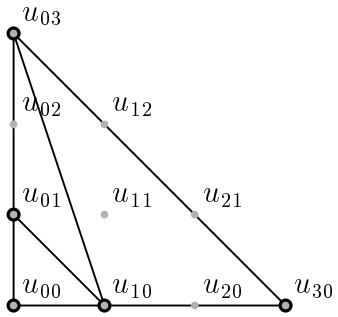
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 6 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{10} + 2 \cdot u_{03} &< 6 \cdot u_{11} \\
3 \cdot u_{10} + 4 \cdot u_{03} &< u_{30} + 6 \cdot u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + 4 \cdot u_{03} &< 6 \cdot u_{12} \\
3 \cdot u_{30} + 3 \cdot u_{10} &< 6 \cdot u_{20} \\
4 \cdot u_{30} + 2 \cdot u_{03} &< 6 \cdot u_{21}
\end{aligned}$$

# 913. Vertex: $(0, 6, 0, 9, 1, 0, 3, 0, 0, 8)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 6 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

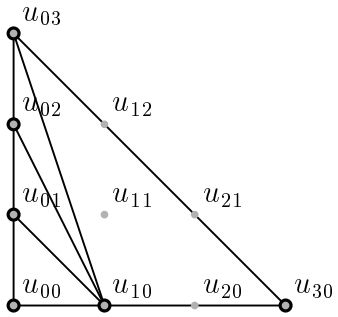
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 6 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{10} + 2 \cdot u_{03} &< 6 \cdot u_{11} \\
6 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{30} + 6 \cdot u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + 4 \cdot u_{03} &< 6 \cdot u_{12} \\
3 \cdot u_{30} + 3 \cdot u_{10} &< 6 \cdot u_{20} \\
4 \cdot u_{30} + 2 \cdot u_{03} &< 6 \cdot u_{21}
\end{aligned}$$

# 914. Vertex: $(0, 6, 0, 9, 1, 0, 2, 0, 2, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 6 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

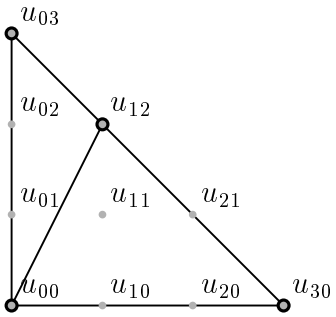
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 6 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 3 \cdot u_{10} + 2 \cdot u_{03} &< 6 \cdot u_{11} \\
3 \cdot u_{10} + 4 \cdot u_{03} &< u_{30} + 6 \cdot u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{30} + 4 \cdot u_{03} &< 6 \cdot u_{12} \\
3 \cdot u_{30} + 3 \cdot u_{10} &< 6 \cdot u_{20} \\
4 \cdot u_{30} + 2 \cdot u_{03} &< 6 \cdot u_{21}
\end{aligned}$$

# 915. Vertex: $(0, 6, 0, 0, 9, 0, 0, 9, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 4 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

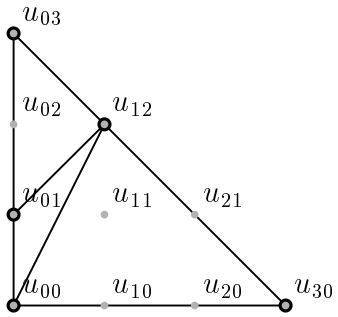
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 4 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{00} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
9 \cdot u_{12} &< 3 \cdot u_{30} + 6 \cdot u_{03} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{30} + 4 \cdot u_{00} &< 6 \cdot u_{10} \\
4 \cdot u_{30} + 2 \cdot u_{00} &< 6 \cdot u_{20} \\
3 \cdot u_{30} + 3 \cdot u_{12} &< 6 \cdot u_{21}
\end{aligned}$$

# 916. Vertex: $(0, 6, 0, 0, 7, 0, 3, 9, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 4 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

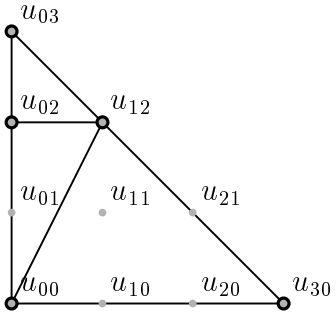
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 4 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{00} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
4 \cdot u_{00} + 3 \cdot u_{12} &< u_{30} + 6 \cdot u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + 4 \cdot u_{00} &< 6 \cdot u_{10} \\
4 \cdot u_{30} + 2 \cdot u_{00} &< 6 \cdot u_{20} \\
3 \cdot u_{30} + 3 \cdot u_{12} &< 6 \cdot u_{21}
\end{aligned}$$

# 917. Vertex: $(0, 6, 0, 0, 8, 0, 0, 9, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 4 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

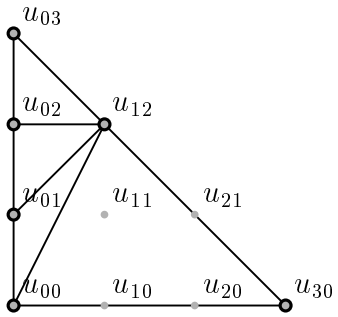
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 4 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{00} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
2 \cdot u_{00} + 6 \cdot u_{12} &< 2 \cdot u_{30} + 6 \cdot u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + 4 \cdot u_{00} &< 6 \cdot u_{10} \\
4 \cdot u_{30} + 2 \cdot u_{00} &< 6 \cdot u_{20} \\
3 \cdot u_{30} + 3 \cdot u_{12} &< 6 \cdot u_{21}
\end{aligned}$$

# 918. Vertex: $(0, 6, 0, 0, 7, 0, 2, 9, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 4 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

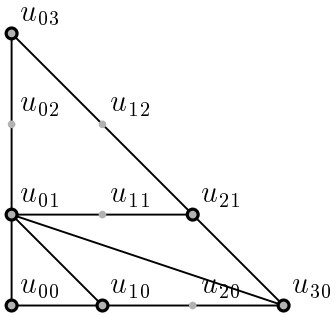
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 4 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{30} + 2 \cdot u_{00} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
4 \cdot u_{00} + 3 \cdot u_{12} &< u_{30} + 6 \cdot u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + 4 \cdot u_{00} &< 6 \cdot u_{10} \\
4 \cdot u_{30} + 2 \cdot u_{00} &< 6 \cdot u_{20} \\
3 \cdot u_{30} + 3 \cdot u_{12} &< 6 \cdot u_{21}
\end{aligned}$$

# 919. Vertex: $(0, 4, 0, 3, 1, 6, 9, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 6 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

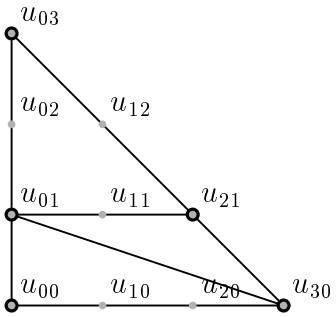
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 6 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
6 \cdot u_{21} &< 4 \cdot u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 920. Vertex: $(0, 5, 0, 0, 3, 6, 9, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 6 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

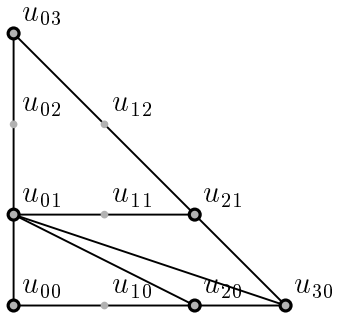
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 6 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
6 \cdot u_{21} &< 4 \cdot u_{30} + 2 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{30} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 921. Vertex: $(0, 3, 3, 0, 2, 6, 9, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 6 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

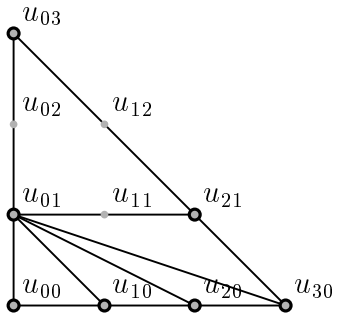
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 6 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
6 \cdot u_{21} &< 4 \cdot u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{30} + u_{01} &< 2 \cdot u_{20} + u_{21}
\end{aligned}$$

# 922. Vertex: $(0, 3, 2, 2, 1, 6, 9, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 6 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

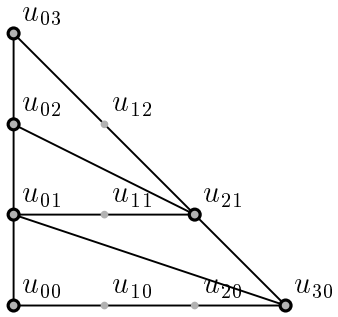
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 6 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
6 \cdot u_{21} &< 4 \cdot u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{30} + u_{01} &< 2 \cdot u_{20} + u_{21}
\end{aligned}$$

# 923. Vertex: $(0, 5, 0, 0, 3, 6, 7, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

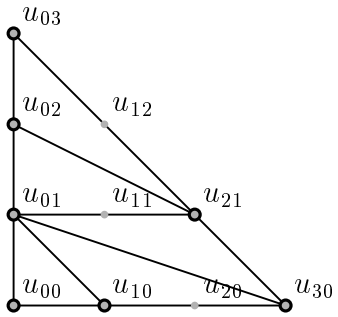
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 924. Vertex: $(0, 4, 0, 3, 1, 6, 7, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

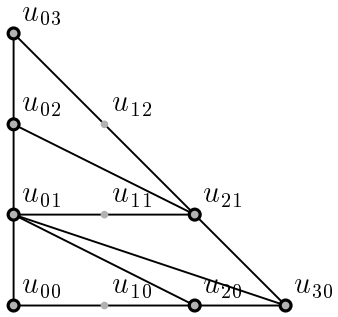
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 925. Vertex: $(0, 3, 3, 0, 2, 6, 7, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

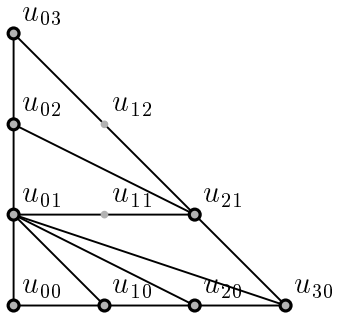
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{01} &< 2 \cdot u_{20} + u_{21}
\end{aligned}$$

# 926. Vertex: $(0, 3, 2, 2, 1, 6, 7, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

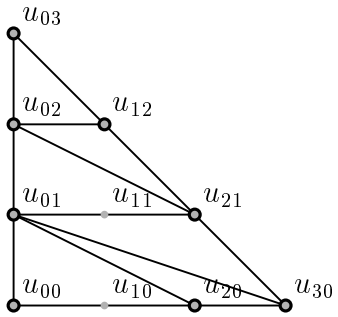
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{01} &< 2 \cdot u_{20} + u_{21}
\end{aligned}$$

# 927. Vertex: $(0, 3, 3, 0, 2, 5, 7, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

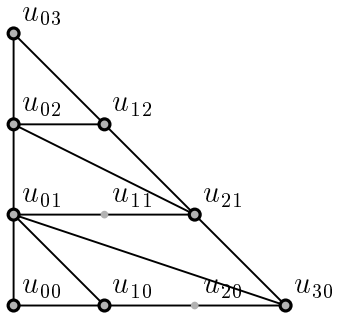
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{01} &< 2 \cdot u_{20} + u_{21}
\end{aligned}$$

# 928. Vertex: $(0, 4, 0, 3, 1, 5, 7, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

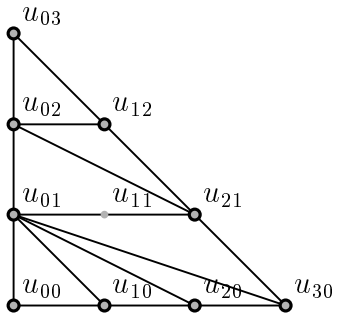
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 929. Vertex: $(0, 3, 2, 2, 1, 5, 7, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

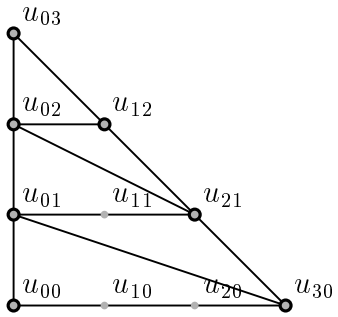
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{30} + u_{01} &< 2 \cdot u_{20} + u_{21}
\end{aligned}$$

# 930. Vertex: $(0, 5, 0, 0, 3, 5, 7, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

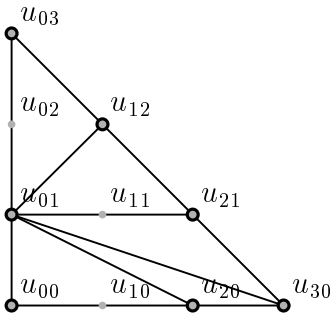
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{30} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 931. Vertex: $(0, 3, 3, 0, 2, 4, 9, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

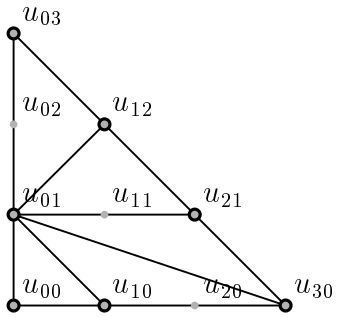
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 6 | 0 | 2 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{01} &< 2 \cdot u_{20} + u_{21}
\end{aligned}$$

# 932. Vertex: $(0, 4, 0, 3, 1, 4, 9, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

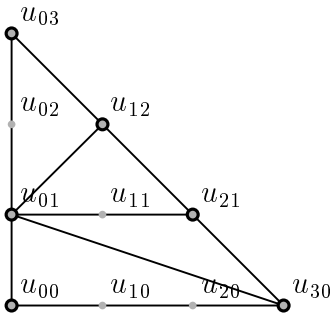
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 6 | 0 | 2 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 933. Vertex: $(0, 5, 0, 0, 3, 4, 9, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

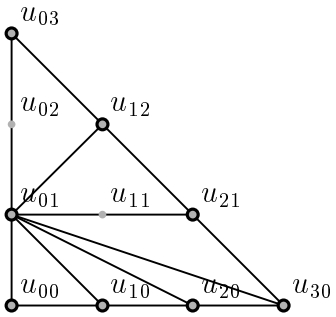
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 6 | 0 | 2 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 934. Vertex: $(0, 3, 2, 2, 1, 4, 9, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

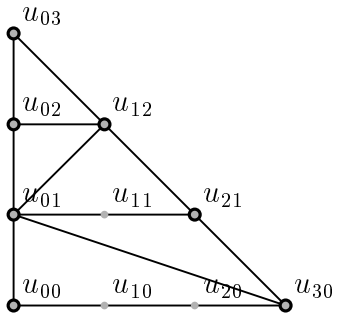
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 6 | 0 | 2 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + u_{01} &< 2 \cdot u_{20} + u_{21}
\end{aligned}$$

# 935. Vertex: $(0, 5, 0, 0, 3, 4, 8, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

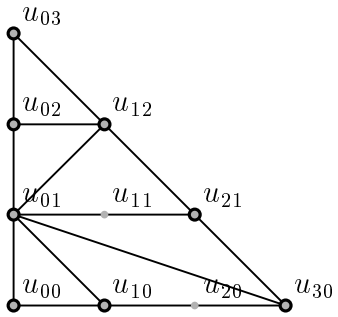
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 6 | 0 | 2 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
2 \cdot u_{30} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 936. Vertex: $(0, 4, 0, 3, 1, 4, 8, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

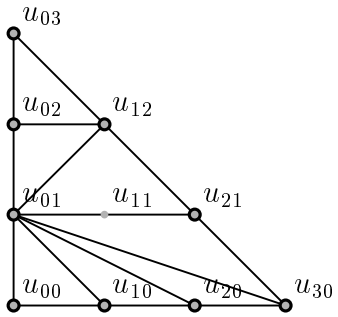
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 6 | 0 | 2 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 937. Vertex: $(0, 3, 2, 2, 1, 4, 8, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

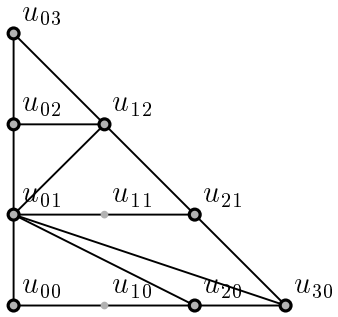
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 6 | 0 | 2 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{30} + u_{01} &< 2 \cdot u_{20} + u_{21}
\end{aligned}$$

# 938. Vertex: $(0, 3, 3, 0, 2, 4, 8, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{30} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

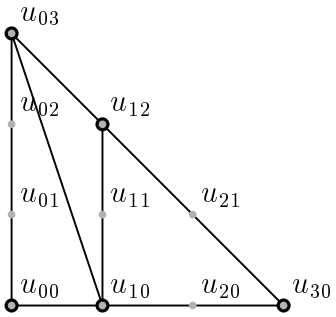
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 6 | 0 | 2 | |
| 0 | 0 | 0 | 0 | 2 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{30} + u_{01} &< 2 \cdot u_{20} + u_{21}
\end{aligned}$$

# 939. Vertex: $(0, 4, 0, 9, 3, 0, 0, 6, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 6 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

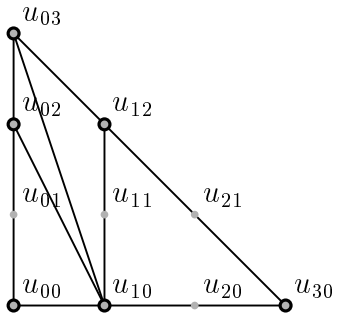
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 6 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
6 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{00} + 3 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 940. Vertex: $(0, 4, 0, 9, 2, 0, 0, 6, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 6 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

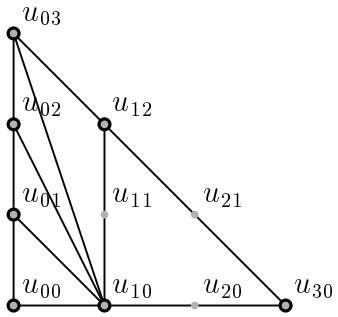
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 6 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
6 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{10} + 2 \cdot u_{03} &< u_{12} + 2 \cdot u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 941. Vertex: $(0, 4, 0, 9, 1, 0, 2, 6, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 6 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

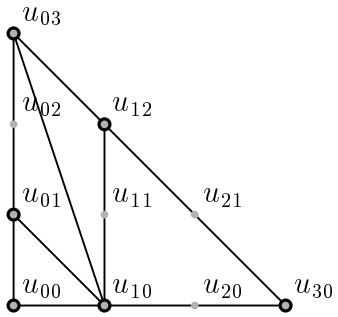
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 6 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
6 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{10} + 2 \cdot u_{03} &< u_{12} + 2 \cdot u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 942. Vertex: $(0, 4, 0, 9, 1, 0, 3, 6, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 6 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

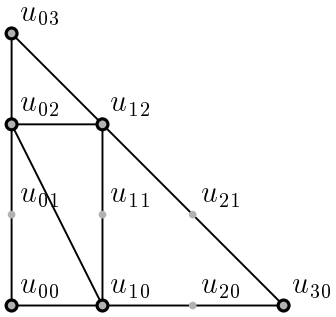
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 6 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
6 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 943. Vertex: $(0, 4, 0, 8, 2, 0, 0, 7, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 5 \cdot u_{10} + 4 \cdot u_{12} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

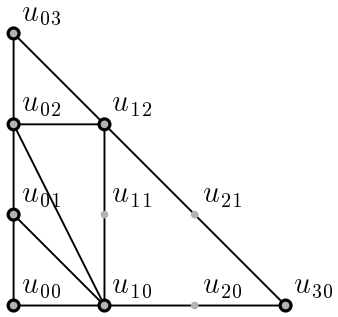
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 4 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 5 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
2 \cdot u_{10} + 4 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{02} \\
u_{12} + 2 \cdot u_{02} &< u_{10} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 944. Vertex: $(0, 4, 0, 8, 1, 0, 2, 7, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 5 \cdot u_{10} + 4 \cdot u_{12} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

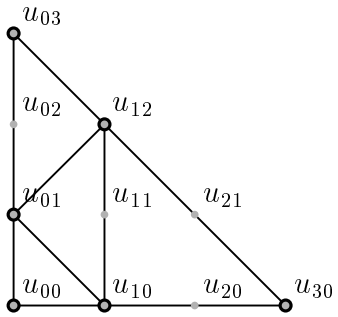
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 4 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 5 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
2 \cdot u_{10} + 4 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{02} \\
u_{12} + 2 \cdot u_{02} &< u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{01} + u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 945. Vertex: $(0, 4, 0, 7, 1, 0, 5, 8, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 4 \cdot u_{10} + 2 \cdot u_{01} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

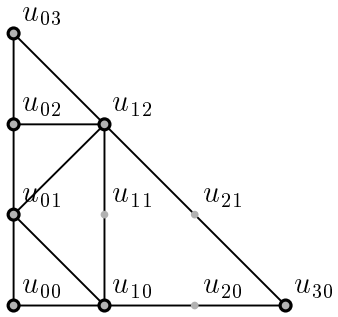
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 4 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
4 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{01} \\
2 \cdot u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 946. Vertex: $(0, 4, 0, 7, 1, 0, 4, 8, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 4 \cdot u_{10} + 2 \cdot u_{01} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

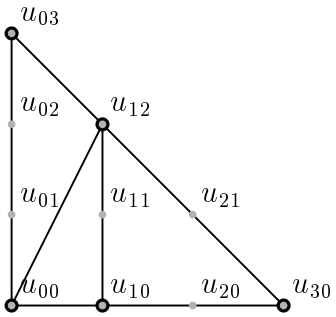
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 4 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
4 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{30} + 4 \cdot u_{01} \\
2 \cdot u_{01} + u_{12} &< u_{10} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 947. Vertex: $(0, 4, 0, 6, 5, 0, 0, 9, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 3 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

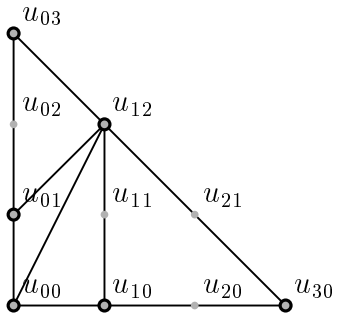
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
6 \cdot u_{10} &< 2 \cdot u_{30} + 4 \cdot u_{00} \\
2 \cdot u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 948. Vertex: $(0, 4, 0, 6, 3, 0, 3, 9, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 3 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

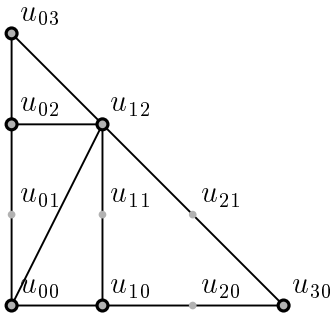
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
6 \cdot u_{10} &< 2 \cdot u_{30} + 4 \cdot u_{00} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 949. Vertex: $(0, 4, 0, 6, 4, 0, 0, 9, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 3 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

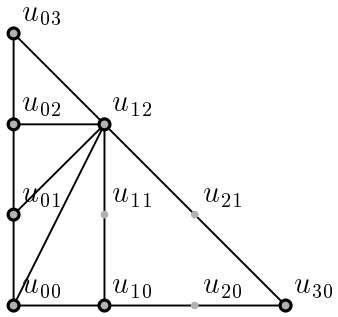
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
6 \cdot u_{10} &< 2 \cdot u_{30} + 4 \cdot u_{00} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 950. Vertex: $(0, 4, 0, 6, 3, 0, 2, 9, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $u_{30} + 3 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

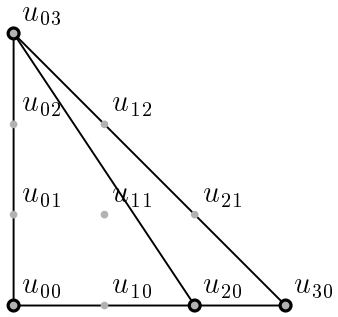
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 3 | 0 | 1 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{10} + 3 \cdot u_{12} &< 6 \cdot u_{11} \\
6 \cdot u_{10} &< 2 \cdot u_{30} + 4 \cdot u_{00} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + 2 \cdot u_{10} &< 4 \cdot u_{20} \\
2 \cdot u_{30} + 2 \cdot u_{12} &< 4 \cdot u_{21}
\end{aligned}$$

# 951. Vertex: $(0, 3, 9, 0, 6, 0, 0, 0, 0, 9)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $0$

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{00} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

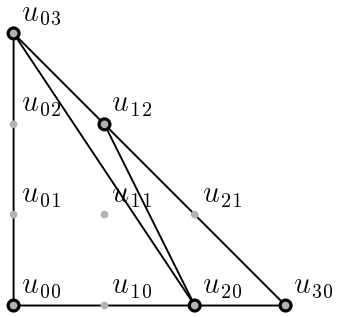
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{11} \\
9 \cdot u_{20} &< 6 \cdot u_{30} + 3 \cdot u_{00} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{00} + 4 \cdot u_{03} &< 6 \cdot u_{02} \\
4 \cdot u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{01} \\
3 \cdot u_{20} + 3 \cdot u_{00} &< 6 \cdot u_{10}
\end{aligned}$$

# 952. Vertex: $(0, 2, 9, 0, 6, 0, 0, 3, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{00} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

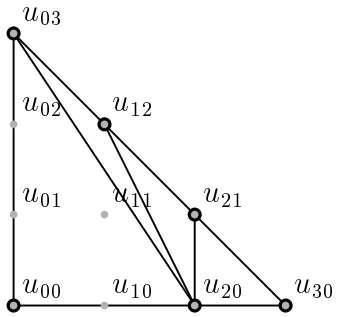
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{11} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + 4 \cdot u_{03} &< 6 \cdot u_{02} \\
4 \cdot u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{01} \\
3 \cdot u_{20} + 3 \cdot u_{00} &< 6 \cdot u_{10} \\
3 \cdot u_{20} + 4 \cdot u_{03} &< u_{00} + 6 \cdot u_{12}
\end{aligned}$$

# 953. Vertex: $(0, 1, 9, 0, 6, 2, 0, 2, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{00} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

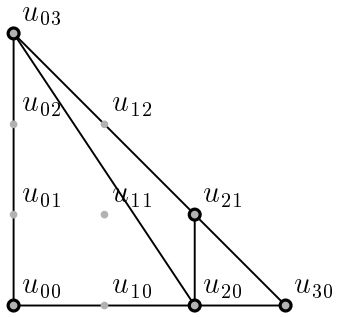
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{11} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{00} + 4 \cdot u_{03} &< 6 \cdot u_{02} \\
4 \cdot u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{01} \\
3 \cdot u_{20} + 3 \cdot u_{00} &< 6 \cdot u_{10} \\
3 \cdot u_{20} + 4 \cdot u_{03} &< u_{00} + 6 \cdot u_{12}
\end{aligned}$$

# 954. Vertex: $(0, 1, 9, 0, 6, 3, 0, 0, 0, 8)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{00} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

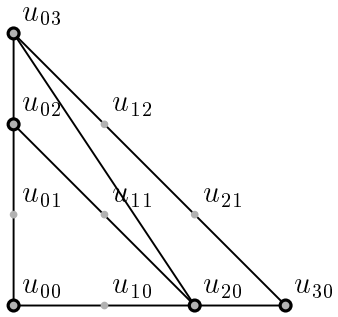
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{11} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + 4 \cdot u_{03} &< 6 \cdot u_{02} \\
4 \cdot u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{01} \\
3 \cdot u_{20} + 3 \cdot u_{00} &< 6 \cdot u_{10} \\
6 \cdot u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{00} + 6 \cdot u_{21}
\end{aligned}$$

# 955. Vertex: $(0, 3, 9, 0, 4, 0, 0, 0, 6, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + u_{00} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

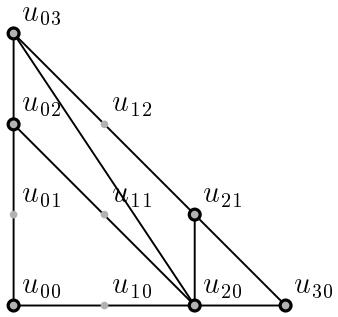
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 1 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
3 \cdot u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{30} + 3 \cdot u_{02} \\
6 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{03} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10}
\end{aligned}$$

# 956. Vertex: $(0, 1, 9, 0, 4, 3, 0, 0, 6, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + u_{00} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

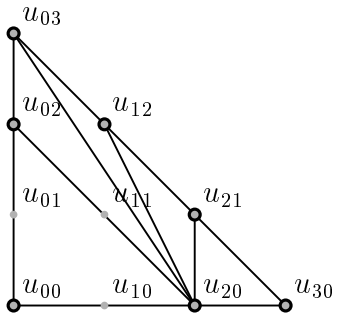
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 1 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
6 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{03} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 957. Vertex: $(0, 1, 9, 0, 4, 2, 0, 2, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + u_{00} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

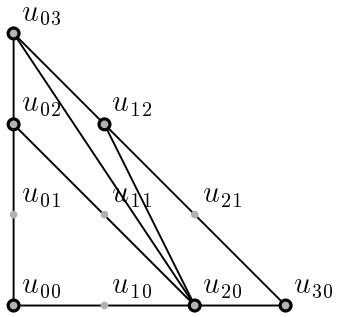
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 1 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
6 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{12} + u_{02}
\end{aligned}$$

# 958. Vertex: $(0, 2, 9, 0, 4, 0, 0, 3, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + u_{00} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

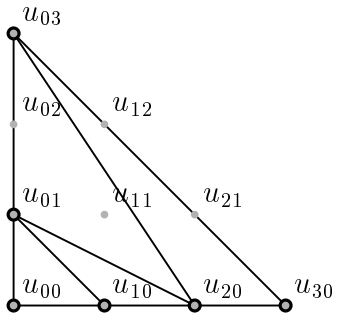
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 1 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
6 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{03} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{12} + u_{02}
\end{aligned}$$

# 959. Vertex: $(0, 3, 8, 2, 1, 0, 6, 0, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 3 \cdot u_{01} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

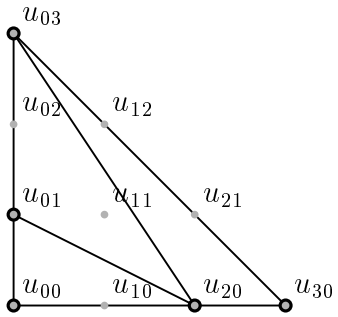
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{01} + u_{03} &< 4 \cdot u_{11} \\
6 \cdot u_{20} + u_{03} &< 4 \cdot u_{30} + 3 \cdot u_{01} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{20} + 3 \cdot u_{01} &< 4 \cdot u_{10} + u_{03}
\end{aligned}$$

# 960. Vertex: $(0, 3, 9, 0, 2, 0, 6, 0, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 3 \cdot u_{01} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

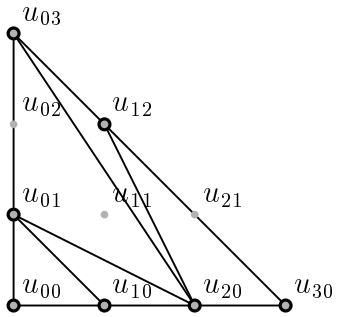
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{01} + u_{03} &< 4 \cdot u_{11} \\
6 \cdot u_{20} + u_{03} &< 4 \cdot u_{30} + 3 \cdot u_{01} \\
6 \cdot u_{01} &< 4 \cdot u_{00} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02}
\end{aligned}$$

# 961. Vertex: $(0, 2, 8, 2, 1, 0, 6, 3, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 3 \cdot u_{01} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

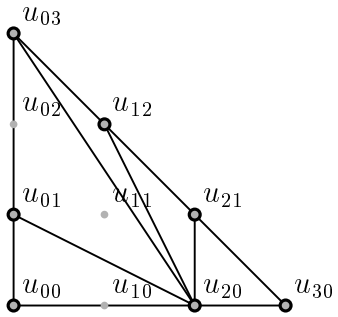
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{01} + u_{03} &< 4 \cdot u_{11} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{20} + 3 \cdot u_{01} &< 4 \cdot u_{10} + u_{03} \\
2 \cdot u_{20} + 3 \cdot u_{03} &< u_{01} + 4 \cdot u_{12}
\end{aligned}$$

# 962. Vertex: $(0, 1, 9, 0, 2, 2, 6, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 3 \cdot u_{01} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

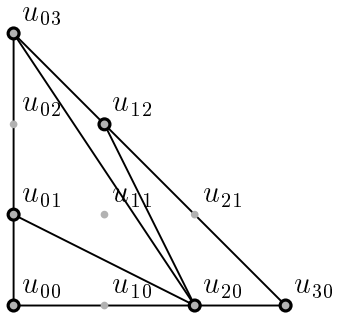
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{01} + u_{03} &< 4 \cdot u_{11} \\
6 \cdot u_{01} &< 4 \cdot u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{20} + 3 \cdot u_{03} &< u_{01} + 4 \cdot u_{12}
\end{aligned}$$

# 963. Vertex: $(0, 2, 9, 0, 2, 0, 6, 3, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 3 \cdot u_{01} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

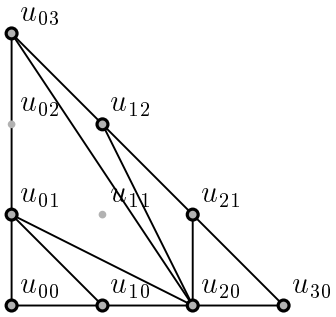
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{01} + u_{03} &< 4 \cdot u_{11} \\
6 \cdot u_{01} &< 4 \cdot u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{20} + 3 \cdot u_{03} &< u_{01} + 4 \cdot u_{12}
\end{aligned}$$

# 964. Vertex: $(0, 1, 8, 2, 1, 2, 6, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 3 \cdot u_{01} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

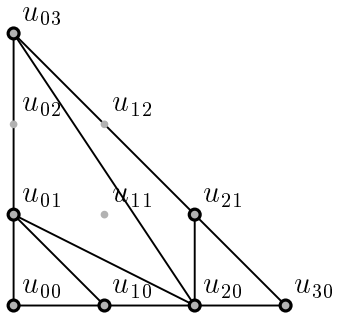
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{01} + u_{03} &< 4 \cdot u_{11} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{20} + 3 \cdot u_{01} &< 4 \cdot u_{10} + u_{03} \\
2 \cdot u_{20} + 3 \cdot u_{03} &< u_{01} + 4 \cdot u_{12}
\end{aligned}$$

# 965. Vertex: $(0, 1, 8, 2, 1, 3, 6, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 3 \cdot u_{01} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

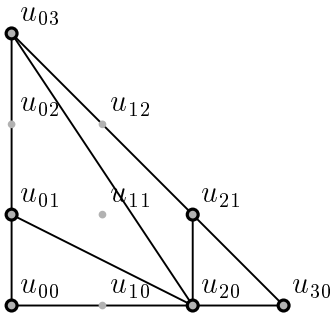
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{01} + u_{03} &< 4 \cdot u_{11} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{20} + 3 \cdot u_{01} &< 4 \cdot u_{10} + u_{03} \\
4 \cdot u_{20} + 2 \cdot u_{03} &< 4 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 966. Vertex: $(0, 1, 9, 0, 2, 3, 6, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 3 \cdot u_{01} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

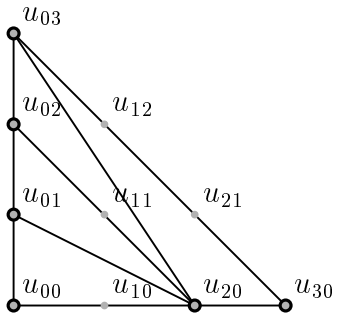
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + u_{01} + u_{03} &< 4 \cdot u_{11} \\
6 \cdot u_{01} &< 4 \cdot u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
4 \cdot u_{20} + 2 \cdot u_{03} &< 4 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 967. Vertex: $(0, 3, 9, 0, 2, 0, 4, 0, 4, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

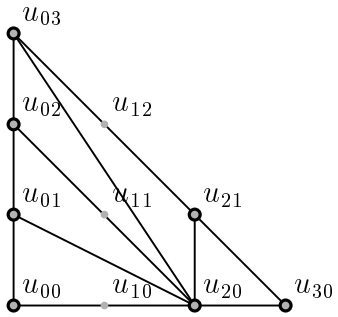
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{30} + 3 \cdot u_{02} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12}
\end{aligned}$$

# 968. Vertex: $(0, 1, 9, 0, 2, 3, 4, 0, 4, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

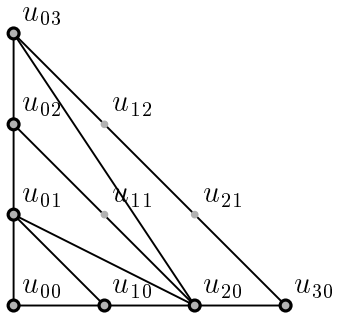
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 969. Vertex: $(0, 3, 8, 2, 1, 0, 4, 0, 4, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

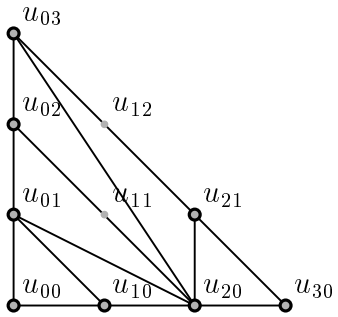
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{30} + 3 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

# 970. Vertex: $(0, 1, 8, 2, 1, 3, 4, 0, 4, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

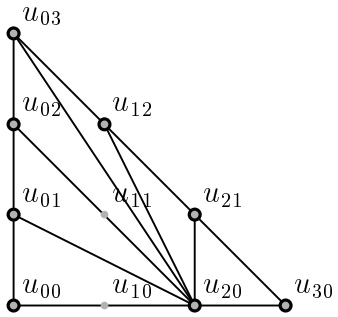
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 971. Vertex: $(0, 1, 9, 0, 2, 2, 4, 2, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

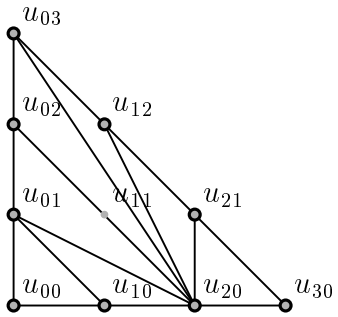
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{12} + u_{02}
\end{aligned}$$

# 972. Vertex: $(0, 1, 8, 2, 1, 2, 4, 2, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

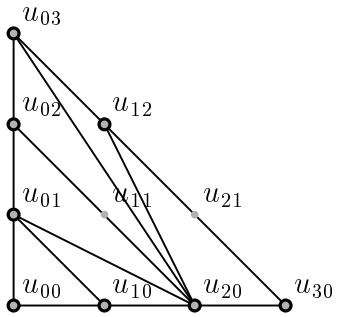
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \\
u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{12} + u_{02}
\end{aligned}$$

# 973. Vertex: $(0, 2, 8, 2, 1, 0, 4, 3, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

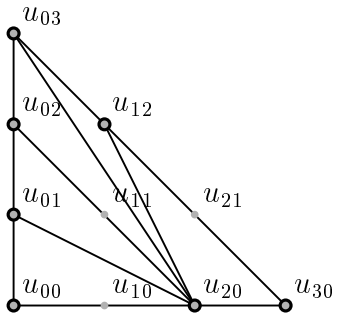
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \\
u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{12} + u_{02}
\end{aligned}$$

# 974. Vertex: $(0, 2, 9, 0, 2, 0, 4, 3, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

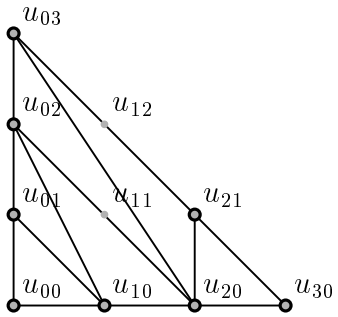
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 6 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{12} + u_{02}
\end{aligned}$$

# 975. Vertex: $(0, 1, 7, 4, 1, 3, 2, 0, 5, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{10} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

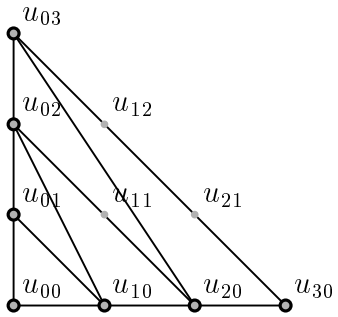
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 976. Vertex: $(0, 3, 7, 4, 1, 0, 2, 0, 5, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{10} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

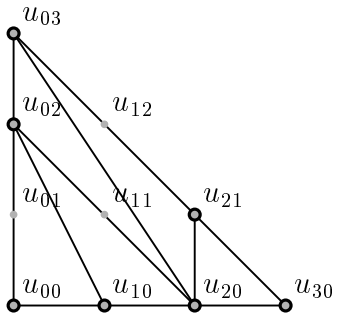
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{30} + 3 \cdot u_{02} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{03}
\end{aligned}$$

# 977. Vertex: $(0, 1, 7, 4, 2, 3, 0, 0, 6, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{10} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

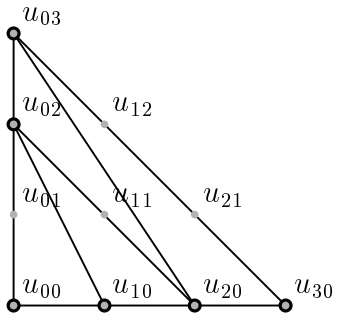
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{21} + 2 \cdot u_{02}
\end{aligned}$$

# 978. Vertex: $(0, 3, 7, 4, 2, 0, 0, 0, 6, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{10} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

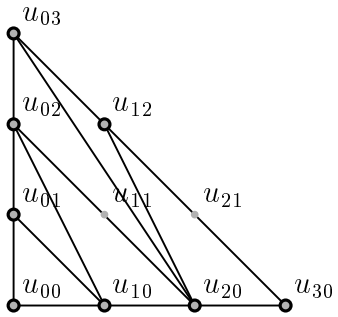
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{30} + 3 \cdot u_{02} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{03}
\end{aligned}$$

# 979. Vertex: $(0, 2, 7, 4, 1, 0, 2, 3, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{10} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

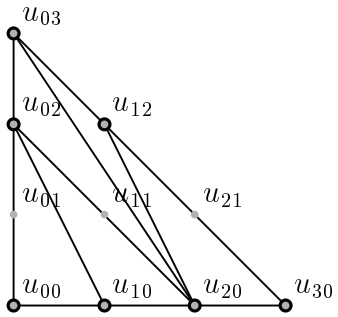
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{03} \\
u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{12} + u_{02}
\end{aligned}$$

# 980. Vertex: $(0, 2, 7, 4, 2, 0, 0, 3, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{10} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

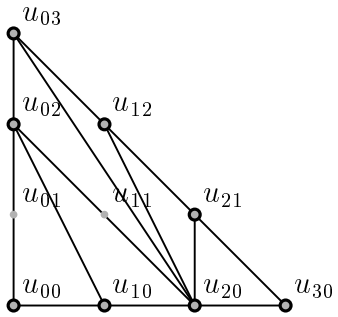
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{03} \\
u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{12} + u_{02}
\end{aligned}$$

# 981. Vertex: $(0, 1, 7, 4, 2, 2, 0, 2, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{10} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

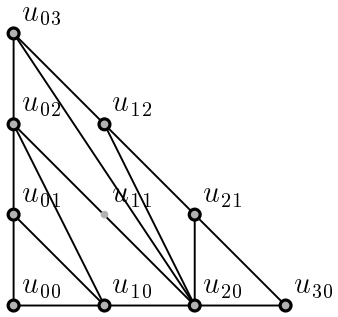
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{03} \\
u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{12} + u_{02}
\end{aligned}$$

# 982. Vertex: $(0, 1, 7, 4, 1, 2, 2, 2, 5, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{10} + 3 \cdot u_{02} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

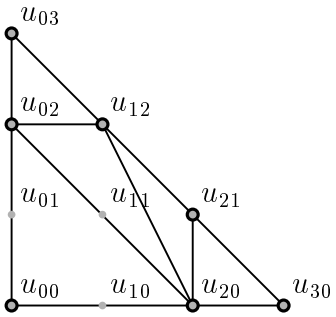
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{03} \\
u_{20} + 2 \cdot u_{03} &< 2 \cdot u_{12} + u_{02}
\end{aligned}$$

# 983. Vertex: $(0, 1, 8, 0, 4, 2, 0, 4, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + u_{00} + 2 \cdot u_{12} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

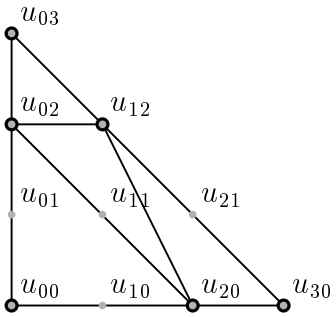
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 2 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 1 | 0 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
2 \cdot u_{12} + u_{02} &< u_{20} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{21} + u_{02} \\
2 \cdot u_{20} + 4 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{12}
\end{aligned}$$

# 984. Vertex: $(0, 2, 8, 0, 4, 0, 0, 5, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + u_{00} + 2 \cdot u_{12} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

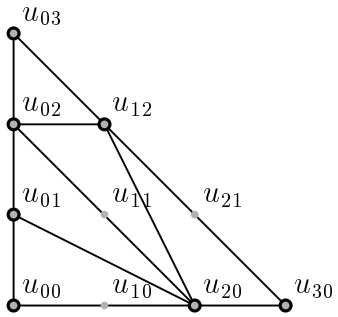
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 2 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 1 | 0 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{12} + u_{02} &< u_{20} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
2 \cdot u_{20} + 4 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{12}
\end{aligned}$$

# 985. Vertex: $(0, 2, 8, 0, 2, 0, 4, 5, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{12} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

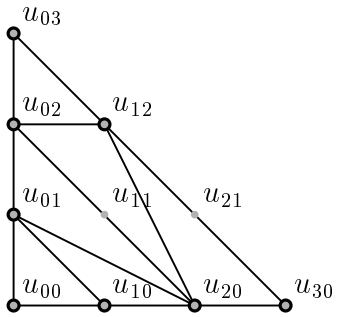
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 2 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{12} + u_{02} &< u_{20} + 2 \cdot u_{03} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 986. Vertex: $(0, 2, 7, 2, 1, 0, 4, 5, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{12} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

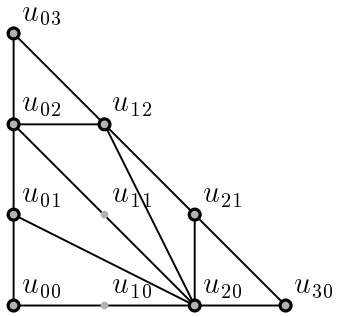
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 2 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{12} + u_{02} &< u_{20} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 987. Vertex: $(0, 1, 8, 0, 2, 2, 4, 4, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{12} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

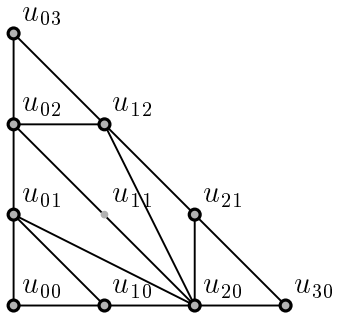
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 2 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{12} + u_{02} &< u_{20} + 2 \cdot u_{03} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{21} + u_{02} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 988. Vertex: $(0, 1, 7, 2, 1, 2, 4, 4, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{12} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

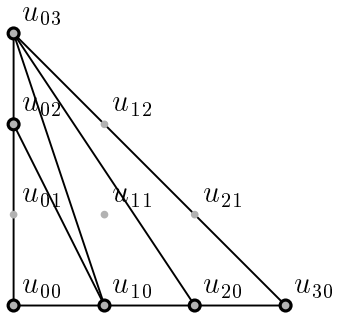
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 2 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 0 | 5 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{12} + u_{02} &< u_{20} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{21} + u_{02} \\
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 989. Vertex: $(0, 3, 6, 6, 2, 0, 0, 0, 3, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

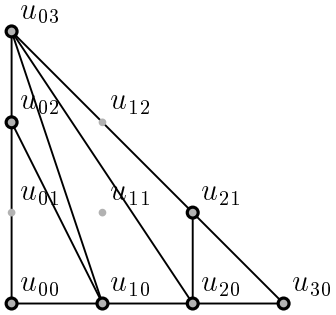
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
6 \cdot u_{20} &< 3 \cdot u_{30} + 3 \cdot u_{10} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< u_{20} + 3 \cdot u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01}
\end{aligned}$$

# 990. Vertex: $(0, 1, 6, 6, 2, 3, 0, 0, 3, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

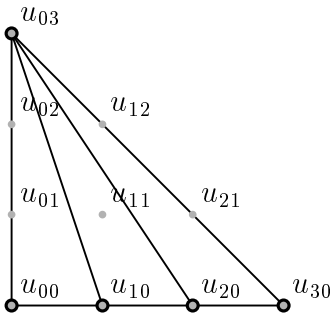
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< u_{20} + 3 \cdot u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{20} + u_{03} &< 2 \cdot u_{10} + 3 \cdot u_{21}
\end{aligned}$$

# 991. Vertex: $(0, 3, 6, 6, 3, 0, 0, 0, 0, 9)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

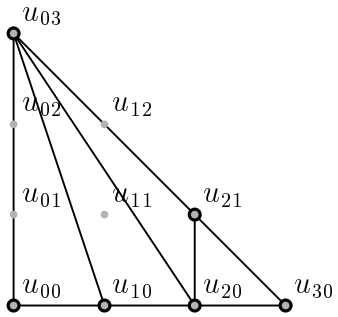
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
6 \cdot u_{20} &< 3 \cdot u_{30} + 3 \cdot u_{10} \\
6 \cdot u_{10} &< 3 \cdot u_{20} + 3 \cdot u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12}
\end{aligned}$$

# 992. Vertex: $(0, 1, 6, 6, 3, 3, 0, 0, 0, 8)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

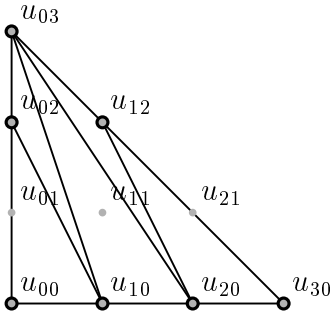
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
6 \cdot u_{10} &< 3 \cdot u_{20} + 3 \cdot u_{00} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{20} + u_{03} &< 2 \cdot u_{10} + 3 \cdot u_{21}
\end{aligned}$$

# 993. Vertex: $(0, 2, 6, 6, 2, 0, 0, 3, 3, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $0$

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

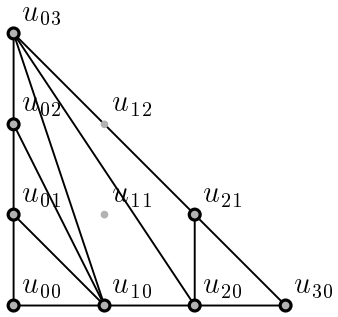
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< u_{20} + 3 \cdot u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 994. Vertex: $(0, 1, 6, 6, 1, 3, 2, 0, 2, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

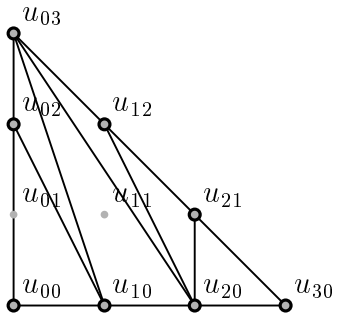
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< u_{20} + 3 \cdot u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{20} + u_{03} &< 2 \cdot u_{10} + 3 \cdot u_{21}
\end{aligned}$$

# 995. Vertex: $(0, 1, 6, 6, 2, 2, 0, 2, 3, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: $0$

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

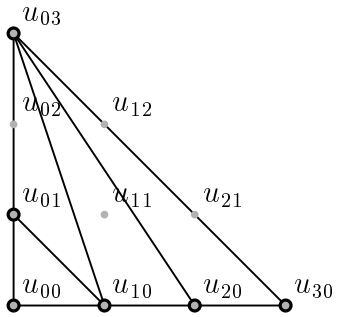
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< u_{20} + 3 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 996. Vertex: $(0, 3, 6, 6, 1, 0, 3, 0, 0, 8)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

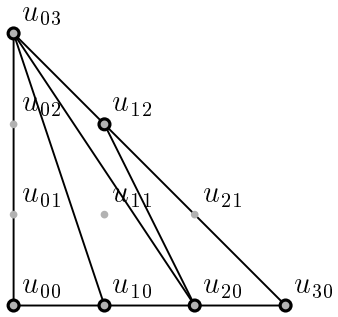
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
6 \cdot u_{20} &< 3 \cdot u_{30} + 3 \cdot u_{10} \\
4 \cdot u_{10} + u_{03} &< 2 \cdot u_{20} + 3 \cdot u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12}
\end{aligned}$$

# 997. Vertex: $(0, 2, 6, 6, 3, 0, 0, 3, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

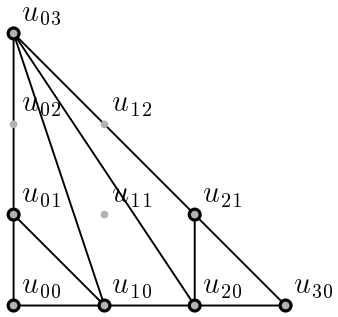
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
6 \cdot u_{10} &< 3 \cdot u_{20} + 3 \cdot u_{00} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 998. Vertex: $(0, 1, 6, 6, 1, 3, 3, 0, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

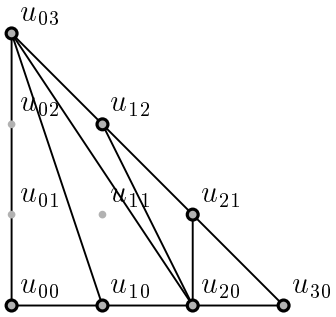
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
4 \cdot u_{10} + u_{03} &< 2 \cdot u_{20} + 3 \cdot u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{21} &< 2 \cdot u_{30} + u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{20} + u_{03} &< 2 \cdot u_{10} + 3 \cdot u_{21}
\end{aligned}$$

# 999. Vertex: $(0, 1, 6, 6, 3, 2, 0, 2, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

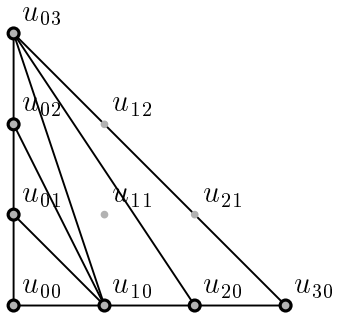
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
6 \cdot u_{10} &< 3 \cdot u_{20} + 3 \cdot u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 1000. Vertex: $(0, 3, 6, 6, 1, 0, 2, 0, 2, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

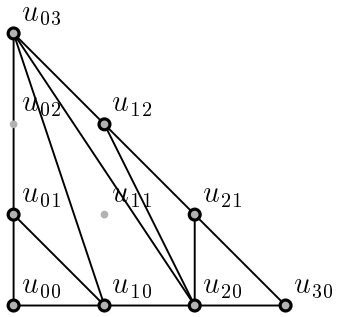
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
6 \cdot u_{20} &< 3 \cdot u_{30} + 3 \cdot u_{10} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< u_{20} + 3 \cdot u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{30} + u_{03} &< 3 \cdot u_{21} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{03} &< 3 \cdot u_{12}
\end{aligned}$$

# 1001. Vertex: $(0, 1, 6, 6, 1, 2, 3, 2, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

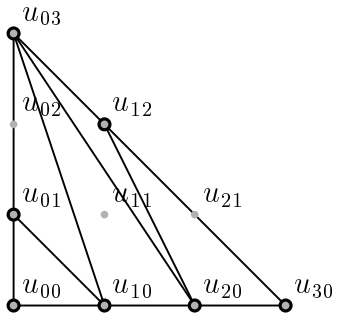
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
4 \cdot u_{10} + u_{03} &< 2 \cdot u_{20} + 3 \cdot u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 1002. Vertex: $(0, 2, 6, 6, 1, 0, 3, 3, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

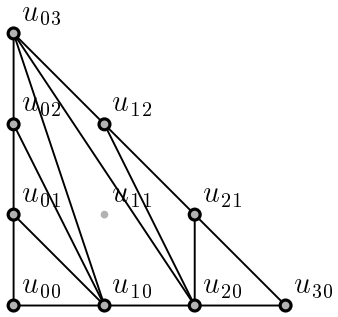
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
4 \cdot u_{10} + u_{03} &< 2 \cdot u_{20} + 3 \cdot u_{01} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 1003. Vertex: $(0, 1, 6, 6, 1, 2, 2, 2, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

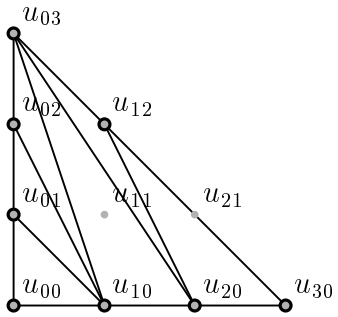
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< u_{20} + 3 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 1004. Vertex: $(0, 2, 6, 6, 1, 0, 2, 3, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

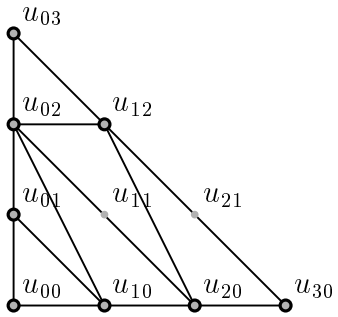
| | | | | |
|---|---|---|---|---|
| 3 | 4 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{10} + u_{03} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< u_{20} + 3 \cdot u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{12} &< u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{20} + 2 \cdot u_{03} &< u_{10} + 3 \cdot u_{12}
\end{aligned}$$

# 1005. Vertex: $(0, 2, 6, 4, 1, 0, 2, 5, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{12} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

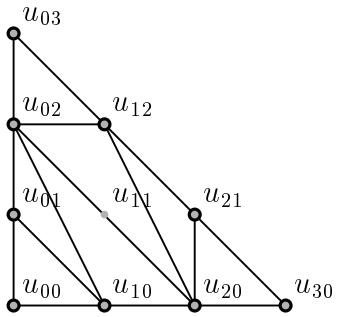
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 2 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{12} + u_{02} &< u_{20} + 2 \cdot u_{03} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 1006. Vertex: $(0, 1, 6, 4, 1, 2, 2, 4, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{12} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

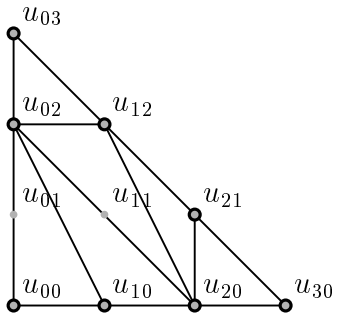
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 2 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{12} + u_{02} &< u_{20} + 2 \cdot u_{03} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{21} + u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 1007. Vertex: $(0, 1, 6, 4, 2, 2, 0, 4, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{12} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

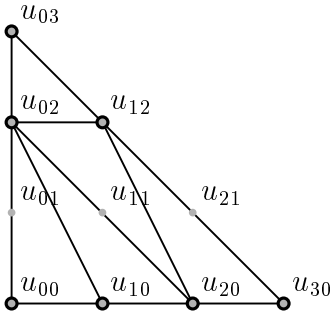
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 2 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{12} + u_{02} &< u_{20} + 2 \cdot u_{03} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{21} + u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 1008. Vertex: $(0, 2, 6, 4, 2, 0, 0, 5, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{12} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

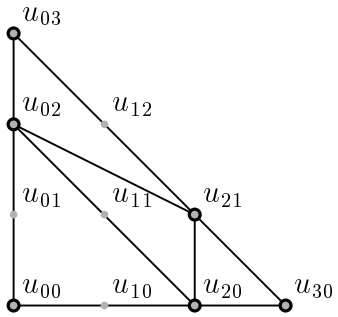
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 2 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 2 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{12} + u_{02} &< u_{20} + 2 \cdot u_{03} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

# 1009. Vertex: $(0, 1, 7, 0, 4, 5, 0, 0, 8, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + u_{00} + 2 \cdot u_{21} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

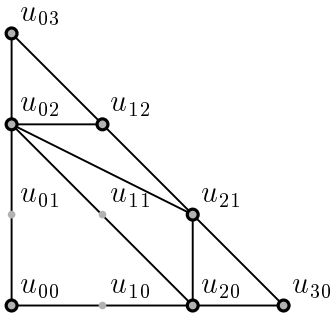
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 1 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
u_{20} + 2 \cdot u_{21} &< 2 \cdot u_{30} + u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
4 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{21}
\end{aligned}$$

# 1010. Vertex: $(0, 1, 7, 0, 4, 4, 0, 2, 8, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + u_{00} + 2 \cdot u_{21} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

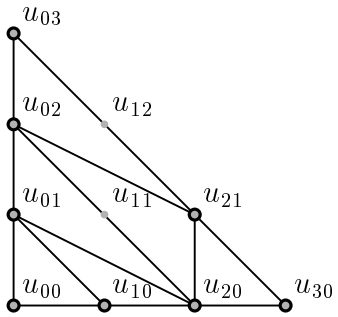
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 1 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
u_{20} + 2 \cdot u_{21} &< 2 \cdot u_{30} + u_{02} \\
2 \cdot u_{21} + u_{02} &< u_{20} + 2 \cdot u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
4 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{21}
\end{aligned}$$

# 1011. Vertex: $(0, 1, 6, 2, 1, 5, 4, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

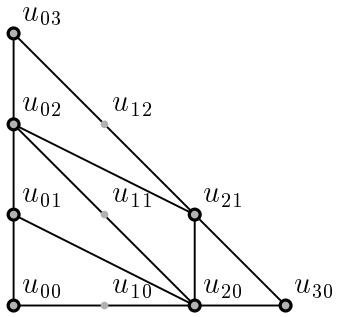
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 2 | 0 | 2 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{20} + 2 \cdot u_{21} &< 2 \cdot u_{30} + u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 1012. Vertex: $(0, 1, 7, 0, 2, 5, 4, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

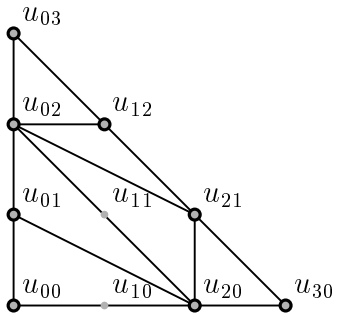
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 2 | 0 | 2 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{20} + 2 \cdot u_{21} &< 2 \cdot u_{30} + u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 1013. Vertex: $(0, 1, 7, 0, 2, 4, 4, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

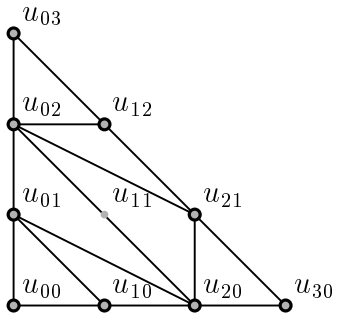
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 2 | 0 | 2 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{20} + 2 \cdot u_{21} &< 2 \cdot u_{30} + u_{02} \\
2 \cdot u_{21} + u_{02} &< u_{20} + 2 \cdot u_{12} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 1014. Vertex: $(0, 1, 6, 2, 1, 4, 4, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

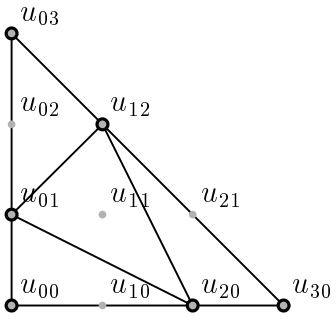
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 2 | 0 | 2 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{20} + 2 \cdot u_{21} &< 2 \cdot u_{30} + u_{02} \\
2 \cdot u_{21} + u_{02} &< u_{20} + 2 \cdot u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 1015. Vertex: $(0, 2, 7, 0, 2, 0, 7, 7, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

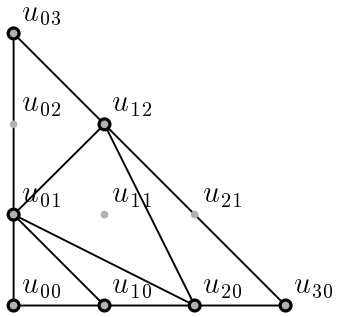
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} + u_{12} &< 3 \cdot u_{11} \\
4 \cdot u_{20} + u_{12} &< 3 \cdot u_{30} + 2 \cdot u_{01} \\
u_{01} + 4 \cdot u_{12} &< 2 \cdot u_{20} + 3 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + 4 \cdot u_{01} &< 3 \cdot u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 1016. Vertex: $(0, 2, 6, 2, 1, 0, 7, 7, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

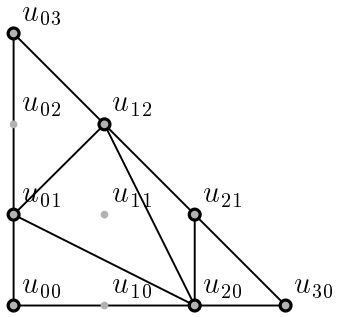
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} + u_{12} &< 3 \cdot u_{11} \\
4 \cdot u_{20} + u_{12} &< 3 \cdot u_{30} + 2 \cdot u_{01} \\
u_{01} + 4 \cdot u_{12} &< 2 \cdot u_{20} + 3 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 3 \cdot u_{10} + u_{12}
\end{aligned}$$

# 1017. Vertex: $(0, 1, 7, 0, 2, 2, 7, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

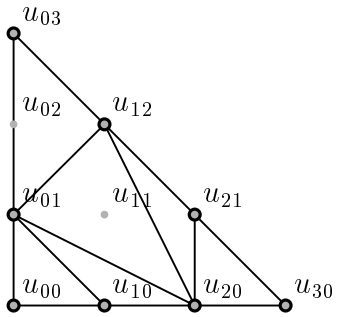
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} + u_{12} &< 3 \cdot u_{11} \\
u_{01} + 4 \cdot u_{12} &< 2 \cdot u_{20} + 3 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{20} + 4 \cdot u_{01} &< 3 \cdot u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 1018. Vertex: $(0, 1, 6, 2, 1, 2, 7, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

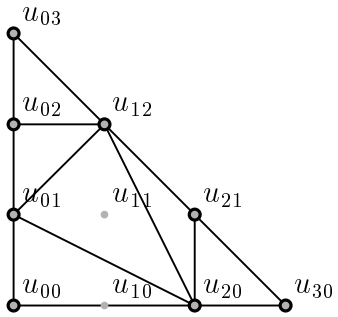
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} + u_{12} &< 3 \cdot u_{11} \\
u_{01} + 4 \cdot u_{12} &< 2 \cdot u_{20} + 3 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 3 \cdot u_{10} + u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 1019. Vertex: $(0, 1, 7, 0, 2, 2, 6, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

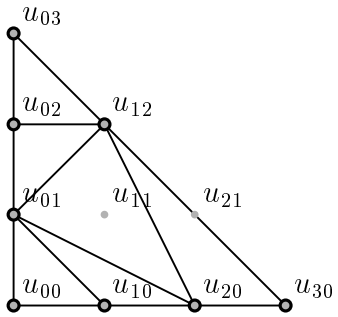
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{01} + 2 \cdot u_{12} &< u_{20} + 3 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{20} + 4 \cdot u_{01} &< 3 \cdot u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 1020. Vertex: $(0, 2, 6, 2, 1, 0, 6, 7, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

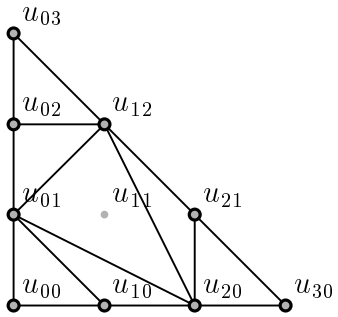
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} + u_{12} &< 3 \cdot u_{11} \\
4 \cdot u_{20} + u_{12} &< 3 \cdot u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{01} + 2 \cdot u_{12} &< u_{20} + 3 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 3 \cdot u_{10} + u_{12}
\end{aligned}$$

# 1021. Vertex: $(0, 1, 6, 2, 1, 2, 6, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

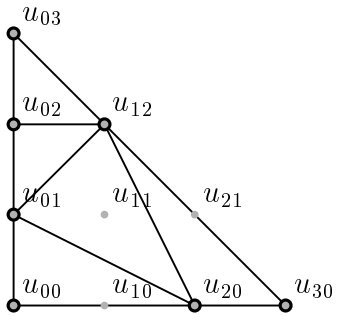
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{01} + 2 \cdot u_{12} &< u_{20} + 3 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 3 \cdot u_{10} + u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 3 \cdot u_{21} + u_{01}
\end{aligned}$$

# 1022. Vertex: $(0, 2, 7, 0, 2, 0, 6, 7, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

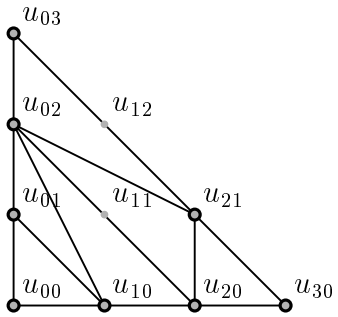
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 4 | 0 | 0 | |
| 0 | 0 | 0 | 4 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} + u_{12} &< 3 \cdot u_{11} \\
4 \cdot u_{20} + u_{12} &< 3 \cdot u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{01} + 2 \cdot u_{12} &< u_{20} + 3 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{20} + 4 \cdot u_{01} &< 3 \cdot u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 1023. Vertex: $(0, 1, 5, 4, 1, 5, 2, 0, 7, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{21} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

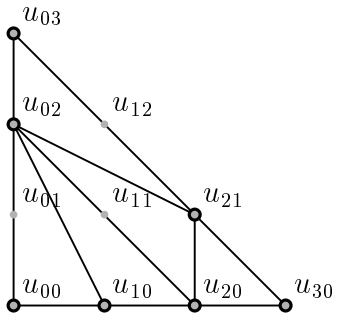
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{20} + 2 \cdot u_{21} &< 2 \cdot u_{30} + u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1024. Vertex: $(0, 1, 5, 4, 2, 5, 0, 0, 8, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{21} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

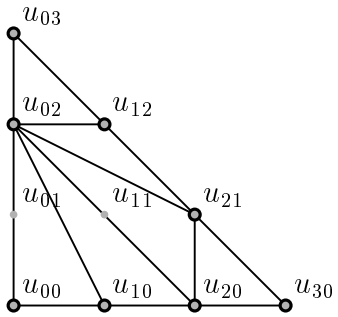
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{20} + 2 \cdot u_{21} &< 2 \cdot u_{30} + u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1025. Vertex: $(0, 1, 5, 4, 2, 4, 0, 2, 8, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{21} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

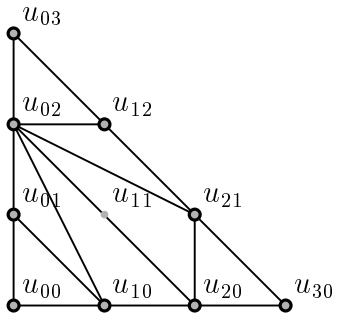
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{20} + 2 \cdot u_{21} &< 2 \cdot u_{30} + u_{02} \\
2 \cdot u_{21} + u_{02} &< u_{20} + 2 \cdot u_{12} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1026. Vertex: $(0, 1, 5, 4, 1, 4, 2, 2, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{21} + 5 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

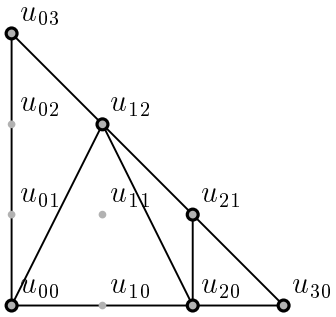
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 5 | 0 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 2 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{20} + 2 \cdot u_{21} &< 2 \cdot u_{30} + u_{02} \\
2 \cdot u_{21} + u_{02} &< u_{20} + 2 \cdot u_{12} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1027. Vertex: $(0, 1, 6, 0, 7, 2, 0, 8, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

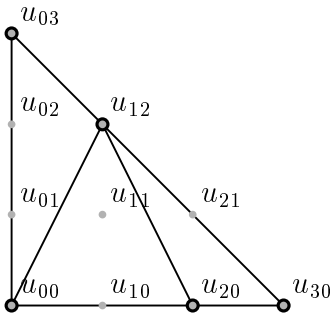
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 3 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{00} + 6 \cdot u_{12} &< 3 \cdot u_{20} + 4 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
3 \cdot u_{20} + 2 \cdot u_{12} &< u_{00} + 4 \cdot u_{21}
\end{aligned}$$

# 1028. Vertex: $(0, 2, 6, 0, 7, 0, 0, 9, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

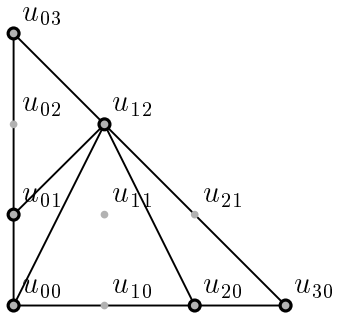
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 3 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
6 \cdot u_{20} &< 4 \cdot u_{30} + 2 \cdot u_{00} \\
u_{00} + 6 \cdot u_{12} &< 3 \cdot u_{20} + 4 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10}
\end{aligned}$$

# 1029. Vertex: $(0, 2, 6, 0, 5, 0, 3, 9, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

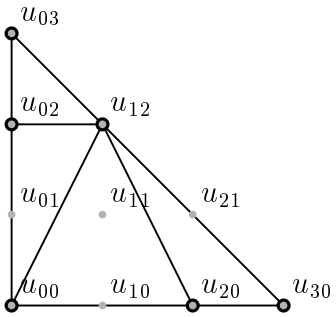
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 3 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
6 \cdot u_{20} &< 4 \cdot u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{00} + 2 \cdot u_{12} &< u_{20} + 4 \cdot u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10}
\end{aligned}$$

# 1030. Vertex: $(0, 2, 6, 0, 6, 0, 0, 9, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

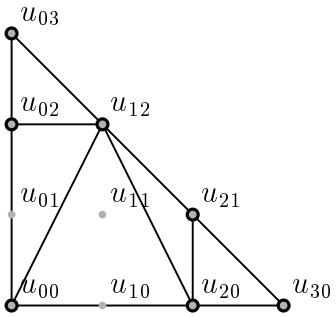
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 3 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
6 \cdot u_{20} &< 4 \cdot u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{00} + 4 \cdot u_{12} &< 2 \cdot u_{20} + 4 \cdot u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10}
\end{aligned}$$

# 1031. Vertex: $(0, 1, 6, 0, 6, 2, 0, 8, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

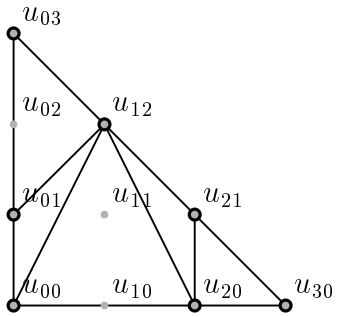
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 3 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + 4 \cdot u_{12} &< 2 \cdot u_{20} + 4 \cdot u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
3 \cdot u_{20} + 2 \cdot u_{12} &< u_{00} + 4 \cdot u_{21}
\end{aligned}$$

# 1032. Vertex: $(0, 1, 6, 0, 5, 2, 3, 8, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

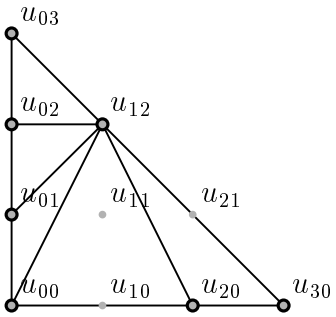
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 3 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
3 \cdot u_{00} + 2 \cdot u_{12} &< u_{20} + 4 \cdot u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
3 \cdot u_{20} + 2 \cdot u_{12} &< u_{00} + 4 \cdot u_{21}
\end{aligned}$$

# 1033. Vertex: $(0, 2, 6, 0, 5, 0, 2, 9, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

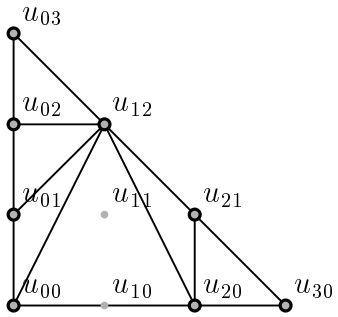
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 3 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
6 \cdot u_{20} &< 4 \cdot u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{00} + 2 \cdot u_{12} &< u_{20} + 4 \cdot u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10}
\end{aligned}$$

# 1034. Vertex: $(0, 1, 6, 0, 5, 2, 2, 8, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

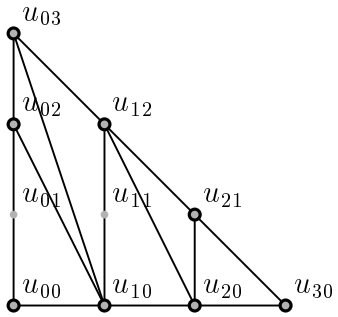
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 3 | 0 | 3 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
3 \cdot u_{00} + 2 \cdot u_{12} &< u_{20} + 4 \cdot u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
3 \cdot u_{20} + 2 \cdot u_{12} &< u_{00} + 4 \cdot u_{21}
\end{aligned}$$

# 1035. Vertex: $(0, 1, 4, 7, 2, 2, 0, 5, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 5 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

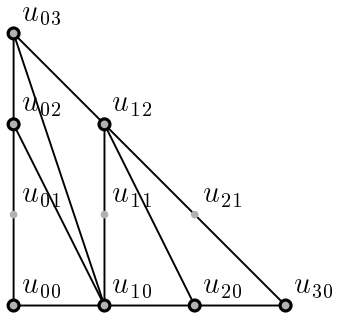
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 5 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{10} + 2 \cdot u_{03} &< u_{12} + 2 \cdot u_{02} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1036. Vertex: $(0, 2, 4, 7, 2, 0, 0, 6, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 5 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

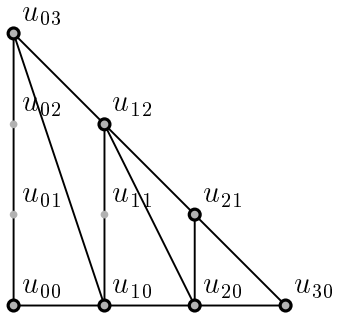
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 5 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{10} + 2 \cdot u_{03} &< u_{12} + 2 \cdot u_{02}
\end{aligned}$$

# 1037. Vertex: $(0, 1, 4, 7, 3, 2, 0, 5, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 5 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

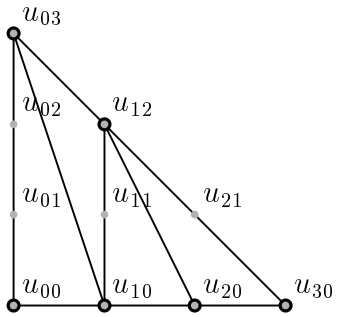
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 5 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{00} + 3 \cdot u_{12} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1038. Vertex: $(0, 2, 4, 7, 3, 0, 0, 6, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 5 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

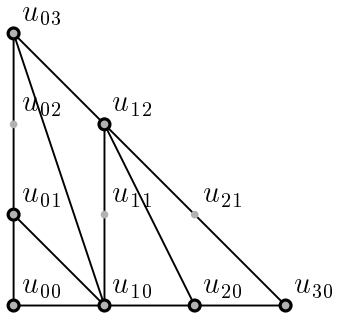
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 5 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 1039. Vertex: $(0, 2, 4, 7, 1, 0, 3, 6, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 5 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

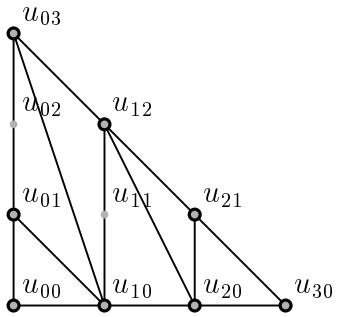
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 5 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 1040. Vertex: $(0, 1, 4, 7, 1, 2, 3, 5, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 5 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

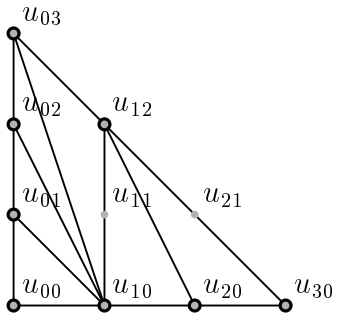
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 5 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1041. Vertex: $(0, 2, 4, 7, 1, 0, 2, 6, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 5 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

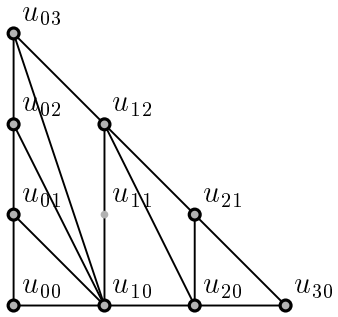
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 5 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{10} + 2 \cdot u_{03} &< u_{12} + 2 \cdot u_{02}
\end{aligned}$$

# 1042. Vertex: $(0, 1, 4, 7, 1, 2, 2, 5, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 5 \cdot u_{10} + 3 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

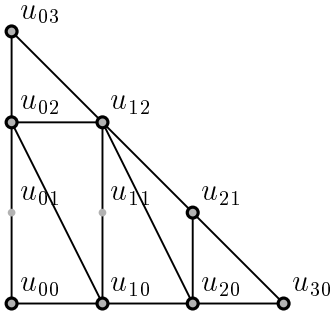
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 3 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 5 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{10} + 2 \cdot u_{03} &< u_{12} + 2 \cdot u_{02} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1043. Vertex: $(0, 1, 4, 6, 2, 2, 0, 6, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{12} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

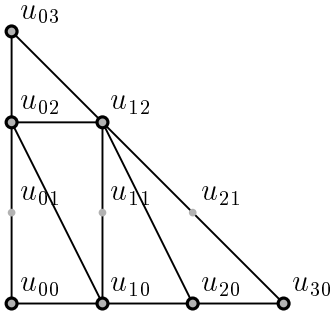
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 4 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
u_{12} + 2 \cdot u_{02} &< u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1044. Vertex: $(0, 2, 4, 6, 2, 0, 0, 7, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{12} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

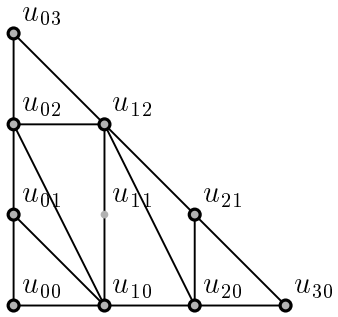
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 4 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
u_{12} + 2 \cdot u_{02} &< u_{10} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 1045. Vertex: $(0, 1, 4, 6, 1, 2, 2, 6, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{12} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

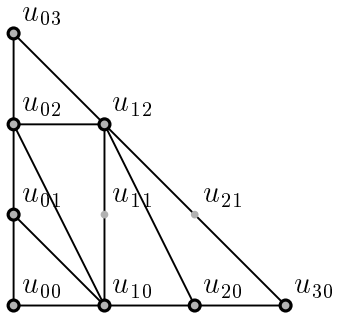
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 4 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
u_{12} + 2 \cdot u_{02} &< u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{01} + u_{12} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1046. Vertex: $(0, 2, 4, 6, 1, 0, 2, 7, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{12} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

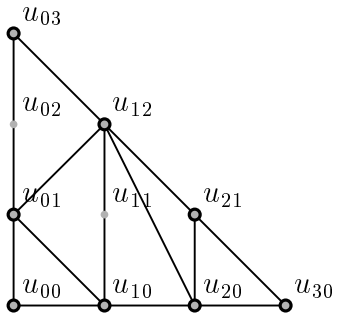
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 4 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 4 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
u_{12} + 2 \cdot u_{02} &< u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{01} + u_{12}
\end{aligned}$$

# 1047. Vertex: $(0, 1, 4, 5, 1, 2, 5, 7, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 3 \cdot u_{10} + 2 \cdot u_{01} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

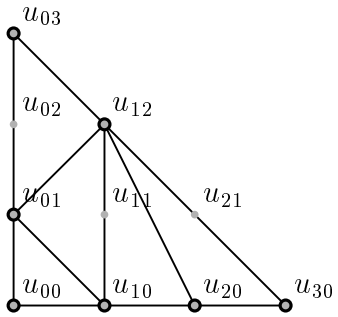
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1048. Vertex: $(0, 2, 4, 5, 1, 0, 5, 8, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 3 \cdot u_{10} + 2 \cdot u_{01} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

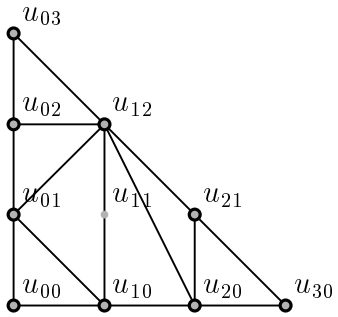
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12}
\end{aligned}$$

# 1049. Vertex: $(0, 1, 4, 5, 1, 2, 4, 7, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 3 \cdot u_{10} + 2 \cdot u_{01} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

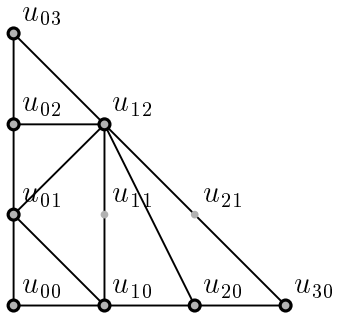
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{01} + u_{12} &< u_{10} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1050. Vertex: $(0, 2, 4, 5, 1, 0, 4, 8, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 3 \cdot u_{10} + 2 \cdot u_{01} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

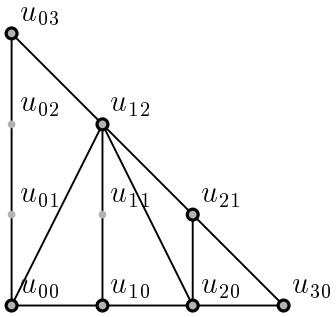
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 2 | 0 | 0 | |
| 0 | 0 | 3 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{01} + u_{12} &< u_{10} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12}
\end{aligned}$$

# 1051. Vertex: $(0, 1, 4, 4, 5, 2, 0, 8, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

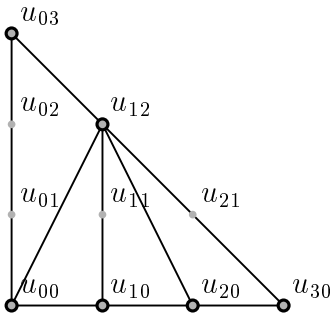
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1052. Vertex: $(0, 2, 4, 4, 5, 0, 0, 9, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

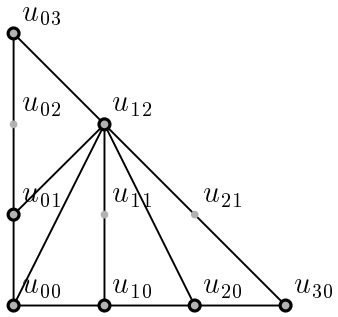
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{10} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02}
\end{aligned}$$

# 1053. Vertex: $(0, 2, 4, 4, 3, 0, 3, 9, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

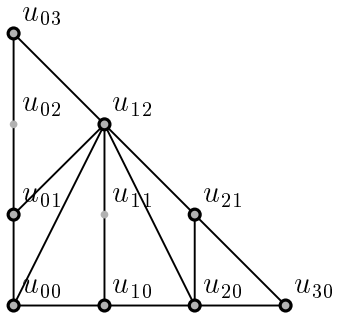
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{01} + u_{03} &< 2 \cdot u_{02}
\end{aligned}$$

# 1054. Vertex: $(0, 1, 4, 4, 3, 2, 3, 8, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

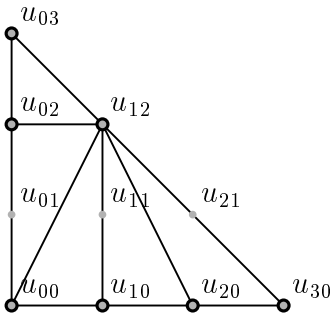
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1055. Vertex: $(0, 2, 4, 4, 4, 0, 0, 9, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

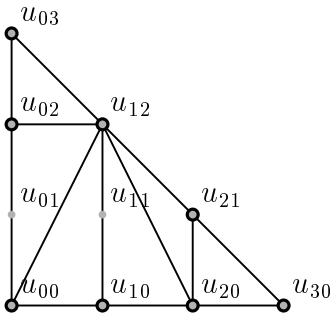
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{12} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01}
\end{aligned}$$

# 1056. Vertex: $(0, 1, 4, 4, 4, 2, 0, 8, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

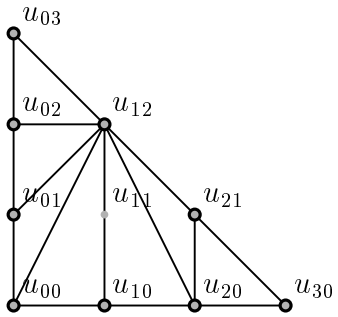
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1057. Vertex: $(0, 1, 4, 4, 3, 2, 2, 8, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

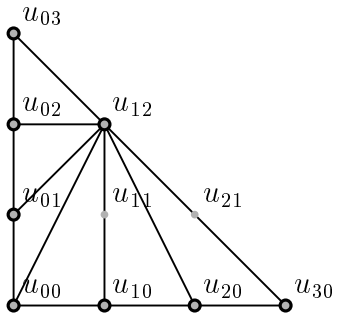
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{30} + u_{12} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21}
\end{aligned}$$

# 1058. Vertex: $(0, 2, 4, 4, 3, 0, 2, 9, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

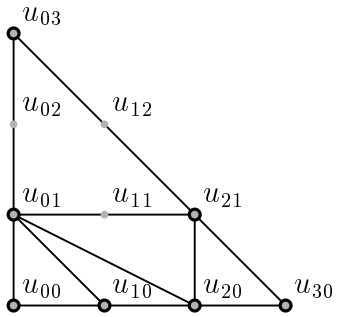
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 6 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 2 | 2 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{20} &< 2 \cdot u_{30} + 2 \cdot u_{10} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{12} &< 2 \cdot u_{21}
\end{aligned}$$

# 1059. Vertex: $(0, 1, 4, 2, 1, 7, 8, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 4 \cdot u_{21} + 5 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

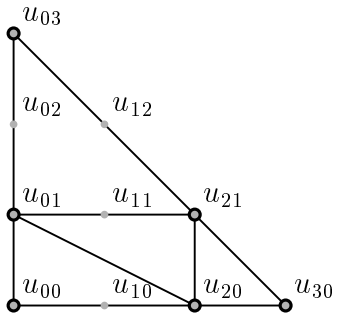
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 5 | 0 | 4 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
2 \cdot u_{20} + u_{21} &< 2 \cdot u_{30} + u_{01} \\
4 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{20} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{20} + u_{01} &< 2 \cdot u_{10} + u_{21}
\end{aligned}$$

# 1060. Vertex: $(0, 1, 5, 0, 2, 7, 8, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 4 \cdot u_{21} + 5 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

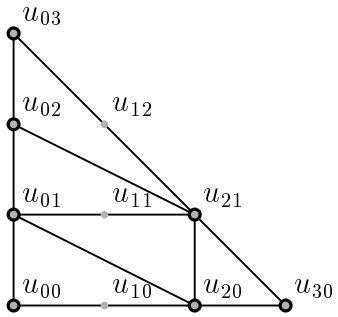
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 5 | 0 | 4 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
2 \cdot u_{20} + u_{21} &< 2 \cdot u_{30} + u_{01} \\
4 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{20} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1061. Vertex: $(0, 1, 5, 0, 2, 7, 6, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

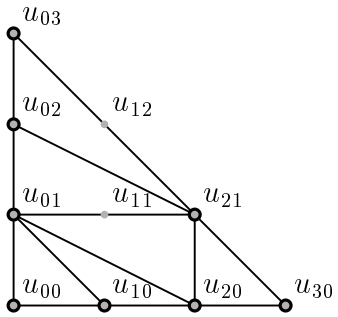
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 4 | 0 | 4 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + u_{21} &< 2 \cdot u_{30} + u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1062. Vertex: $(0, 1, 4, 2, 1, 7, 6, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

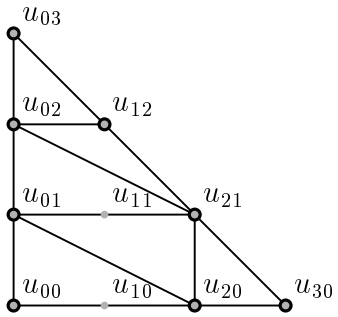
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 4 | 0 | 4 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + u_{21} &< 2 \cdot u_{30} + u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{20} + u_{01} &< 2 \cdot u_{10} + u_{21}
\end{aligned}$$

# 1063. Vertex: $(0, 1, 5, 0, 2, 6, 6, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

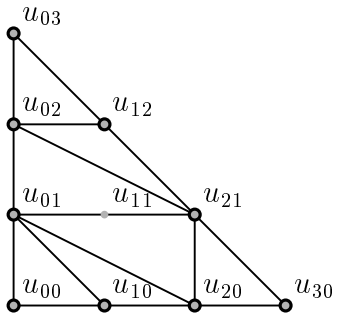
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 4 | 0 | 4 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + u_{21} &< 2 \cdot u_{30} + u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1064. Vertex: $(0, 1, 4, 2, 1, 6, 6, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

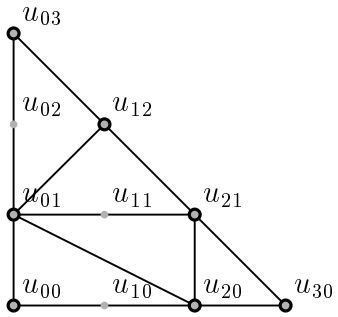
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 4 | 0 | 4 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + u_{21} &< 2 \cdot u_{30} + u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{20} + u_{01} &< 2 \cdot u_{10} + u_{21}
\end{aligned}$$

# 1065. Vertex: $(0, 1, 5, 0, 2, 5, 8, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

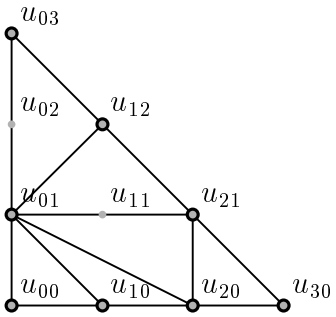
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + u_{21} &< 2 \cdot u_{30} + u_{01} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1066. Vertex: $(0, 1, 4, 2, 1, 5, 8, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

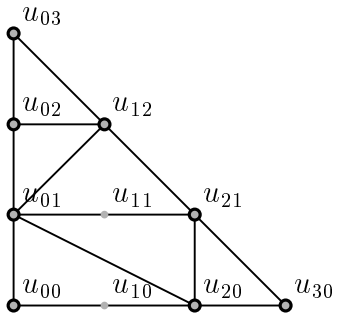
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + u_{21} &< 2 \cdot u_{30} + u_{01} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} + u_{01} &< 2 \cdot u_{10} + u_{21}
\end{aligned}$$

# 1067. Vertex: $(0, 1, 5, 0, 2, 5, 7, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

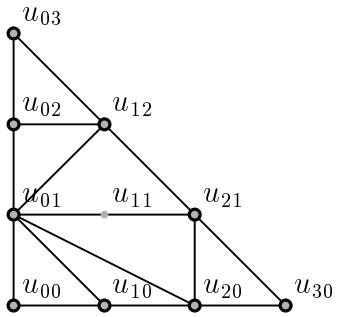
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + u_{21} &< 2 \cdot u_{30} + u_{01} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1068. Vertex: $(0, 1, 4, 2, 1, 5, 7, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{20} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

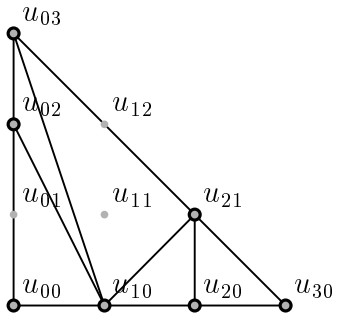
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 5 | 0 | 3 | |
| 0 | 0 | 0 | 2 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + u_{21} &< 2 \cdot u_{30} + u_{01} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} + u_{01} &< 2 \cdot u_{10} + u_{21}
\end{aligned}$$

# 1069. Vertex: $(0, 1, 2, 8, 2, 6, 0, 0, 3, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 3 \cdot u_{21} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

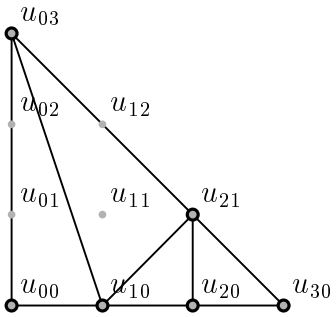
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 3 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{21} + u_{03} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 3 \cdot u_{21} &< 4 \cdot u_{20} + u_{03} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{10} + 3 \cdot u_{03} &< u_{21} + 4 \cdot u_{02}
\end{aligned}$$

# 1070. Vertex: $(0, 1, 2, 8, 3, 6, 0, 0, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 3 \cdot u_{21} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

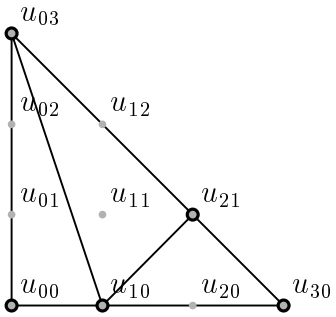
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 3 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{21} + u_{03} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 3 \cdot u_{21} &< 4 \cdot u_{20} + u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
6 \cdot u_{10} + u_{03} &< 4 \cdot u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 1071. Vertex: $(0, 2, 0, 9, 3, 6, 0, 0, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 3 \cdot u_{21} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

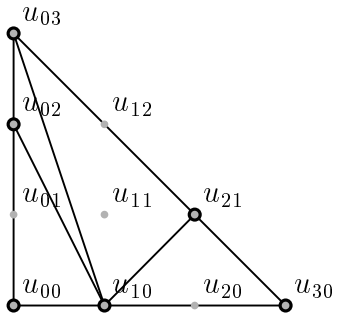
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 3 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{21} + u_{03} &< 4 \cdot u_{11} \\
6 \cdot u_{21} &< 4 \cdot u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
6 \cdot u_{10} + u_{03} &< 4 \cdot u_{00} + 3 \cdot u_{21}
\end{aligned}$$

# 1072. Vertex: $(0, 2, 0, 9, 2, 6, 0, 0, 3, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 3 \cdot u_{21} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

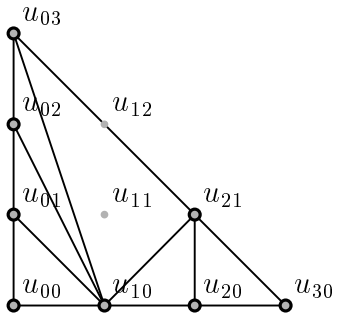
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 3 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{21} + u_{03} &< 4 \cdot u_{11} \\
6 \cdot u_{21} &< 4 \cdot u_{30} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{10} + 3 \cdot u_{03} &< u_{21} + 4 \cdot u_{02}
\end{aligned}$$

# 1073. Vertex: $(0, 1, 2, 8, 1, 6, 2, 0, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 3 \cdot u_{21} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

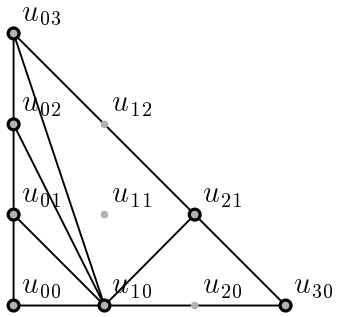
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 3 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{21} + u_{03} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 3 \cdot u_{21} &< 4 \cdot u_{20} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{10} + 3 \cdot u_{03} &< u_{21} + 4 \cdot u_{02}
\end{aligned}$$

# 1074. Vertex: $(0, 2, 0, 9, 1, 6, 2, 0, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 3 \cdot u_{21} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

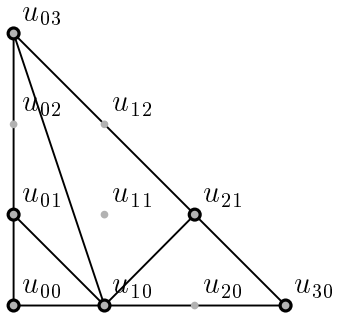
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 3 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{21} + u_{03} &< 4 \cdot u_{11} \\
6 \cdot u_{21} &< 4 \cdot u_{30} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{10} + 3 \cdot u_{03} &< u_{21} + 4 \cdot u_{02}
\end{aligned}$$

# 1075. Vertex: $(0, 2, 0, 9, 1, 6, 3, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 3 \cdot u_{21} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

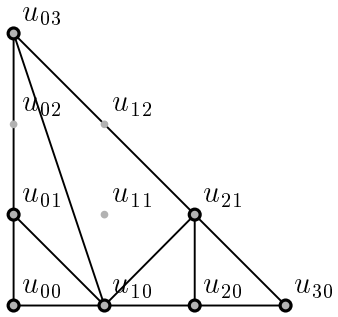
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 3 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{21} + u_{03} &< 4 \cdot u_{11} \\
6 \cdot u_{21} &< 4 \cdot u_{30} + 2 \cdot u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
4 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{21} + 4 \cdot u_{01}
\end{aligned}$$

# 1076. Vertex: $(0, 1, 2, 8, 1, 6, 3, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 3 \cdot u_{21} + 3 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

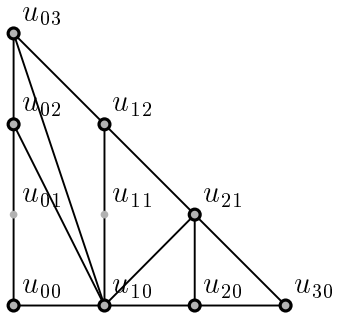
| | | | | |
|---|---|---|---|---|
| 3 | 3 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 3 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{21} + u_{03} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 3 \cdot u_{21} &< 4 \cdot u_{20} + u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
4 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{21} + 4 \cdot u_{01}
\end{aligned}$$

# 1077. Vertex: $(0, 1, 2, 8, 2, 4, 0, 4, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

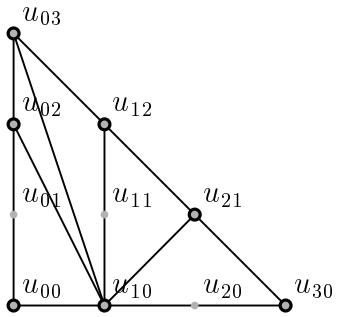
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 2 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{10} + 2 \cdot u_{03} &< u_{12} + 2 \cdot u_{02}
\end{aligned}$$

# 1078. Vertex: $(0, 2, 0, 9, 2, 4, 0, 4, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

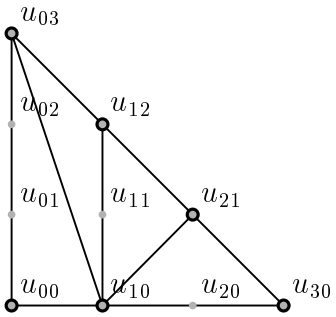
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 2 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{10} + 2 \cdot u_{03} &< u_{12} + 2 \cdot u_{02}
\end{aligned}$$

# 1079. Vertex: $(0, 2, 0, 9, 3, 4, 0, 4, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

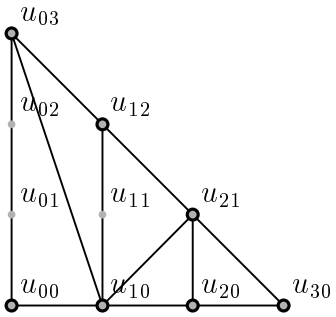
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 2 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 1080. Vertex: $(0, 1, 2, 8, 3, 4, 0, 4, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

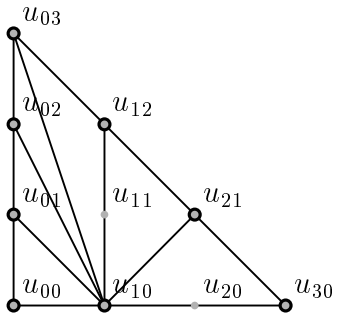
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 2 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
3 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{00} + 3 \cdot u_{12}
\end{aligned}$$

# 1081. Vertex: $(0, 2, 0, 9, 1, 4, 2, 4, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

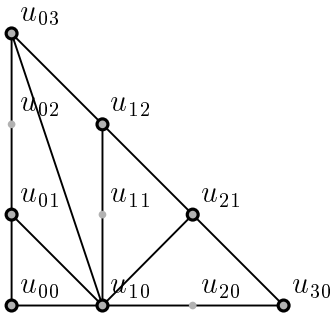
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 2 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{10} + 2 \cdot u_{03} &< u_{12} + 2 \cdot u_{02}
\end{aligned}$$

# 1082. Vertex: $(0, 2, 0, 9, 1, 4, 3, 4, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

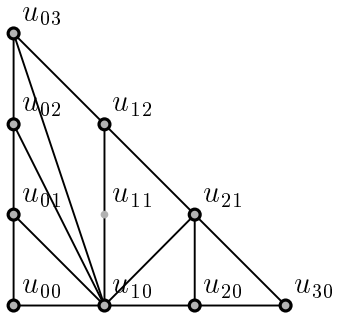
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 2 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 1083. Vertex: $(0, 1, 2, 8, 1, 4, 2, 4, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

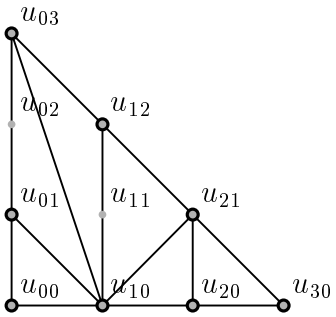
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 2 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{10} + 2 \cdot u_{03} &< u_{12} + 2 \cdot u_{02}
\end{aligned}$$

# 1084. Vertex: $(0, 1, 2, 8, 1, 4, 3, 4, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $6 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{12} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

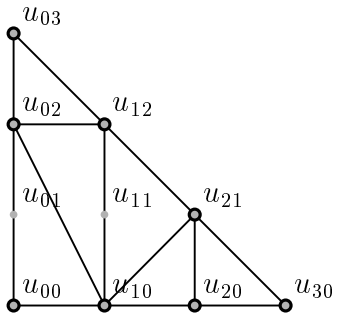
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 2 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 6 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} + 2 \cdot u_{03} &< 2 \cdot u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 1085. Vertex: $(0, 1, 2, 7, 2, 4, 0, 5, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{10} + 2 \cdot u_{21} + 3 \cdot u_{12} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

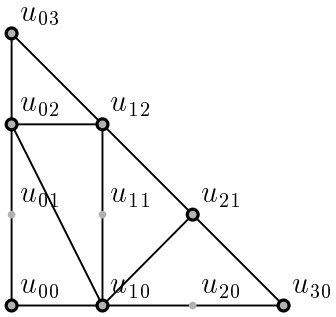
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 3 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 5 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
u_{12} + 2 \cdot u_{02} &< u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 1086. Vertex: $(0, 2, 0, 8, 2, 4, 0, 5, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{10} + 2 \cdot u_{21} + 3 \cdot u_{12} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

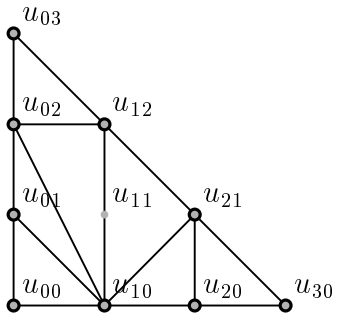
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 3 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 5 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
u_{12} + 2 \cdot u_{02} &< u_{10} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 2 \cdot u_{12}
\end{aligned}$$

# 1087. Vertex: $(0, 1, 2, 7, 1, 4, 2, 5, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{10} + 2 \cdot u_{21} + 3 \cdot u_{12} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

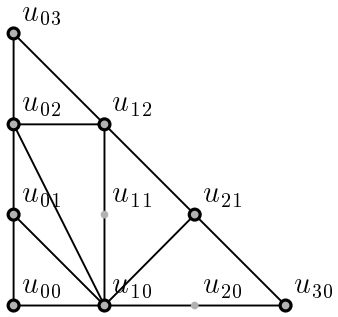
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 3 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 5 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
u_{12} + 2 \cdot u_{02} &< u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{02} \\
u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{01} + u_{12}
\end{aligned}$$

# 1088. Vertex: $(0, 2, 0, 8, 1, 4, 2, 5, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $5 \cdot u_{10} + 2 \cdot u_{21} + 3 \cdot u_{12} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

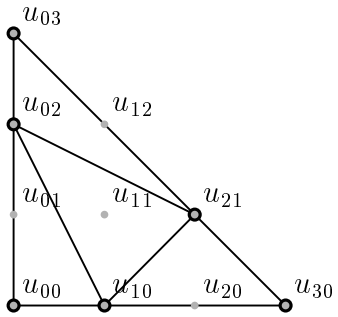
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 3 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 0 | 5 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
u_{12} + 2 \cdot u_{02} &< u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{02} \\
u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{01} + u_{12}
\end{aligned}$$

# 1089. Vertex: $(0, 2, 0, 7, 2, 7, 0, 0, 7, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

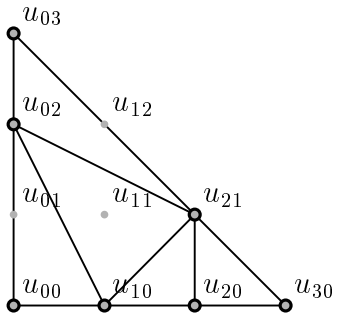
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} + u_{02} &< 3 \cdot u_{11} \\
u_{10} + 4 \cdot u_{21} &< 3 \cdot u_{30} + 2 \cdot u_{02} \\
u_{21} + 4 \cdot u_{02} &< 2 \cdot u_{10} + 3 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{10} + u_{02} &< 3 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1090. Vertex: $(0, 1, 2, 6, 2, 7, 0, 0, 7, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

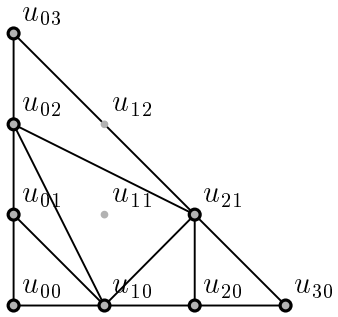
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} + u_{02} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 3 \cdot u_{20} + u_{02} \\
u_{21} + 4 \cdot u_{02} &< 2 \cdot u_{10} + 3 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
4 \cdot u_{10} + u_{02} &< 3 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1091. Vertex: $(0, 1, 2, 6, 1, 7, 2, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

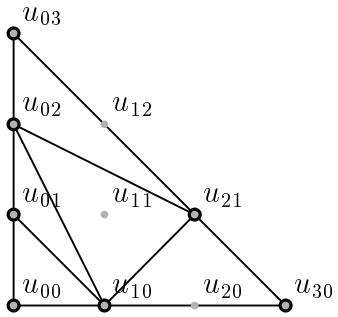
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} + u_{02} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 3 \cdot u_{20} + u_{02} \\
u_{21} + 4 \cdot u_{02} &< 2 \cdot u_{10} + 3 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{10} + 2 \cdot u_{02} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1092. Vertex: $(0, 2, 0, 7, 1, 7, 2, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

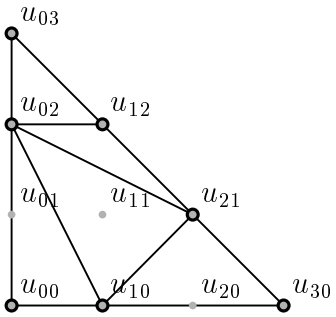
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} + u_{02} &< 3 \cdot u_{11} \\
u_{10} + 4 \cdot u_{21} &< 3 \cdot u_{30} + 2 \cdot u_{02} \\
u_{21} + 4 \cdot u_{02} &< 2 \cdot u_{10} + 3 \cdot u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{10} + 2 \cdot u_{02} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1093. Vertex: $(0, 2, 0, 7, 2, 6, 0, 2, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

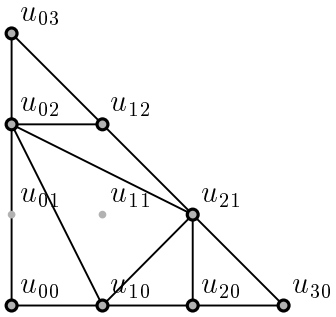
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} + u_{02} &< 3 \cdot u_{11} \\
u_{10} + 4 \cdot u_{21} &< 3 \cdot u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{02} &< u_{10} + 3 \cdot u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{10} + u_{02} &< 3 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1094. Vertex: $(0, 1, 2, 6, 2, 6, 0, 2, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

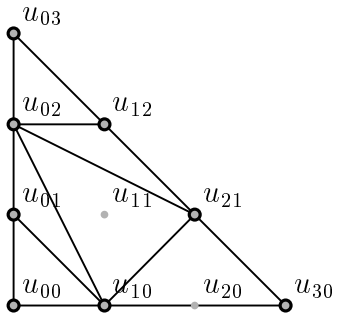
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} + u_{02} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 3 \cdot u_{20} + u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{02} &< u_{10} + 3 \cdot u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{10} + u_{02} &< 3 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1095. Vertex: $(0, 2, 0, 7, 1, 6, 2, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

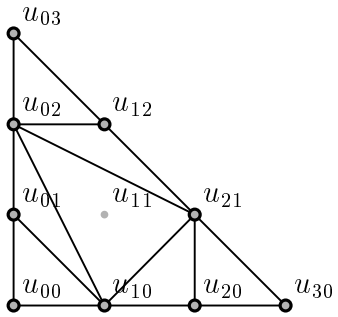
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} + u_{02} &< 3 \cdot u_{11} \\
u_{10} + 4 \cdot u_{21} &< 3 \cdot u_{30} + 2 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{02} &< u_{10} + 3 \cdot u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{10} + 2 \cdot u_{02} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1096. Vertex: $(0, 1, 2, 6, 1, 6, 2, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

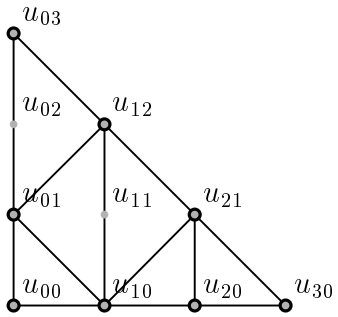
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 4 | 0 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} + u_{02} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 3 \cdot u_{20} + u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{02} &< u_{10} + 3 \cdot u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} + 2 \cdot u_{02} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1097. Vertex: $(0, 1, 2, 6, 1, 4, 5, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

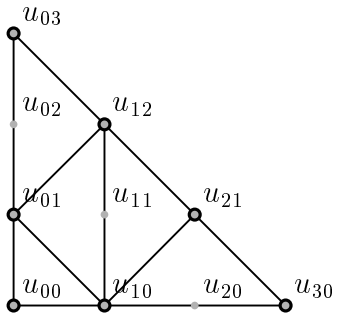
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 2 | 0 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
2 \cdot u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 1098. Vertex: $(0, 2, 0, 7, 1, 4, 5, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

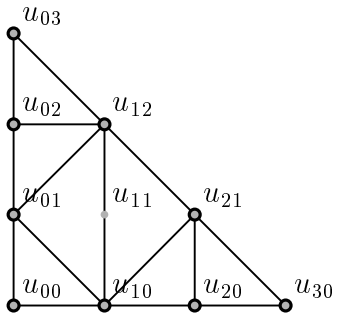
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 2 | 0 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
2 \cdot u_{01} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 1099. Vertex: $(0, 1, 2, 6, 1, 4, 4, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

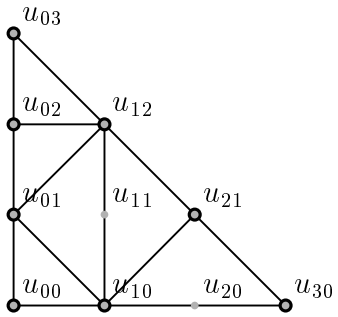
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 2 | 0 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
2 \cdot u_{01} + u_{12} &< u_{10} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 1100. Vertex: $(0, 2, 0, 7, 1, 4, 4, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

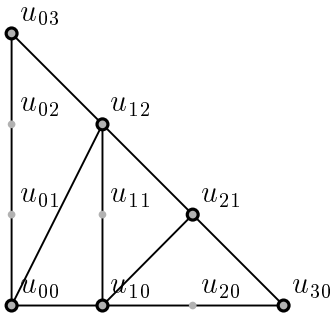
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 2 | 0 | 2 | |
| 0 | 0 | 4 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
2 \cdot u_{01} + u_{12} &< u_{10} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

# 1101. Vertex: $(0, 2, 0, 6, 5, 4, 0, 7, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{21} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

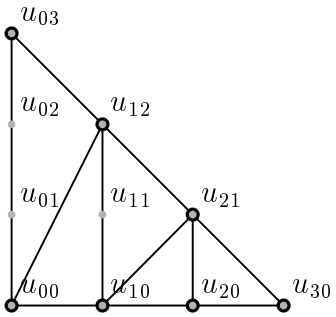
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 2 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
2 \cdot u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{10} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1102. Vertex: $(0, 1, 2, 5, 5, 4, 0, 7, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{21} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

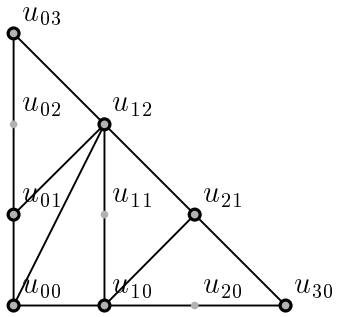
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 2 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
2 \cdot u_{00} + 3 \cdot u_{12} &< 3 \cdot u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1103. Vertex: $(0, 2, 0, 6, 3, 4, 3, 7, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{21} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

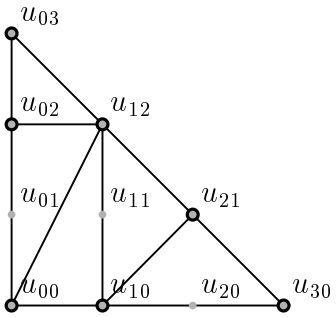
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 2 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1104. Vertex: $(0, 2, 0, 6, 4, 4, 0, 7, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{21} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

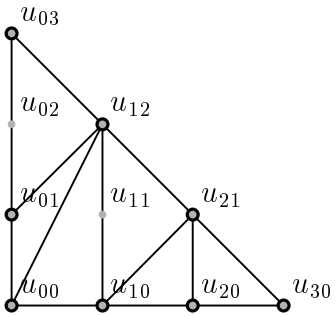
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 2 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1105. Vertex: $(0, 1, 2, 5, 3, 4, 3, 7, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{21} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

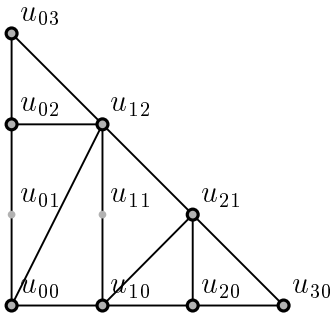
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 2 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1106. Vertex: $(0, 1, 2, 5, 4, 4, 0, 7, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{21} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

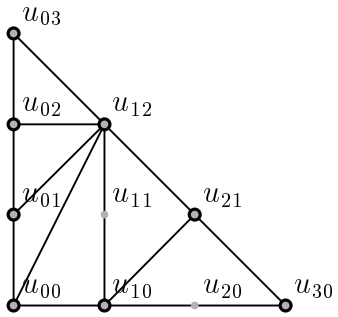
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 2 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{02} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1107. Vertex: $(0, 2, 0, 6, 3, 4, 2, 7, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{21} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

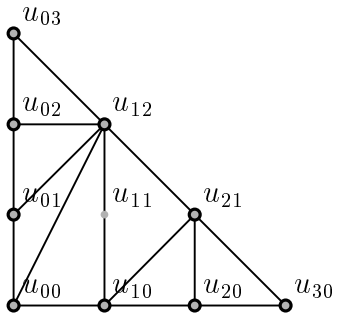
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 2 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1108. Vertex: $(0, 1, 2, 5, 3, 4, 2, 7, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{21} + 5 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

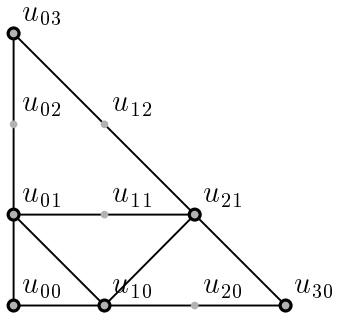
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 5 | | |
| 1 | 0 | 0 | 2 | |
| 0 | 2 | 3 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{21}
\end{aligned}$$

# 1109. Vertex: $(0, 2, 0, 5, 1, 8, 7, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{10} + 5 \cdot u_{21} + 4 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

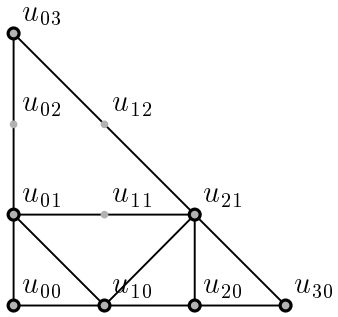
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 4 | 0 | 5 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{21} + 4 \cdot u_{01} &< 4 \cdot u_{10} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21}
\end{aligned}$$

# 1110. Vertex: $(0, 1, 2, 4, 1, 8, 7, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{10} + 5 \cdot u_{21} + 4 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

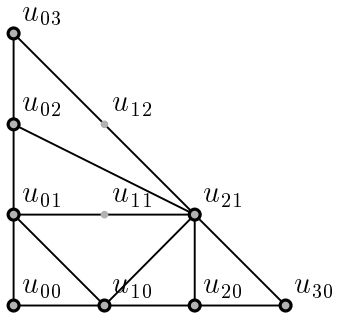
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 4 | 0 | 5 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
2 \cdot u_{10} + u_{21} &< 2 \cdot u_{20} + u_{01} \\
2 \cdot u_{21} + 4 \cdot u_{01} &< 4 \cdot u_{10} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21}
\end{aligned}$$

# 1111. Vertex: $(0, 1, 2, 4, 1, 8, 5, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{10} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

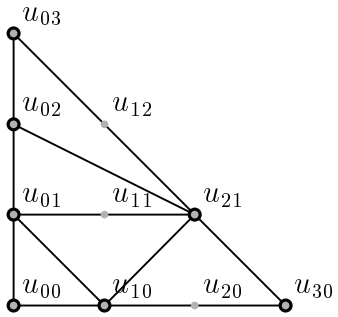
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + u_{21} &< 2 \cdot u_{20} + u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21}
\end{aligned}$$

# 1112. Vertex: $(0, 2, 0, 5, 1, 8, 5, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{10} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

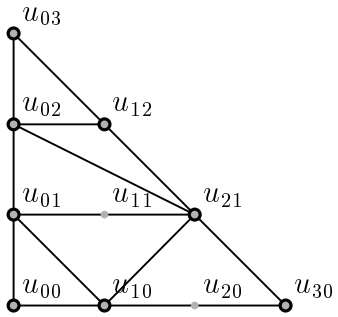
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21}
\end{aligned}$$

# 1113. Vertex: $(0, 2, 0, 5, 1, 7, 5, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{10} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

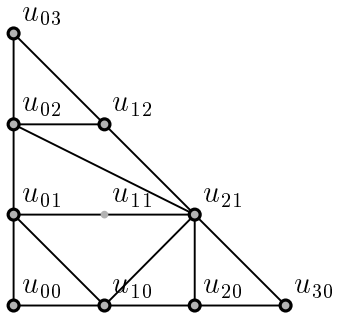
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21}
\end{aligned}$$

# 1114. Vertex: $(0, 1, 2, 4, 1, 7, 5, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{10} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

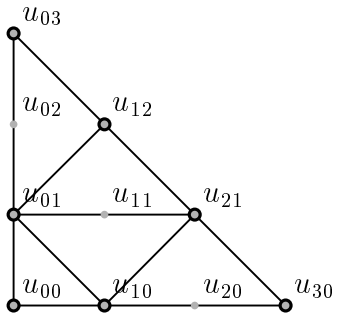
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + u_{21} &< 2 \cdot u_{20} + u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21}
\end{aligned}$$

# 1115. Vertex: $(0, 2, 0, 5, 1, 6, 7, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

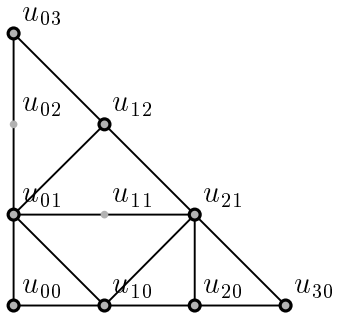
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 0 | 4 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21}
\end{aligned}$$

# 1116. Vertex: $(0, 1, 2, 4, 1, 6, 7, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

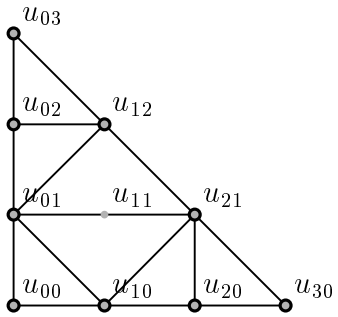
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 0 | 4 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + u_{21} &< 2 \cdot u_{20} + u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21}
\end{aligned}$$

# 1117. Vertex: $(0, 1, 2, 4, 1, 6, 6, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

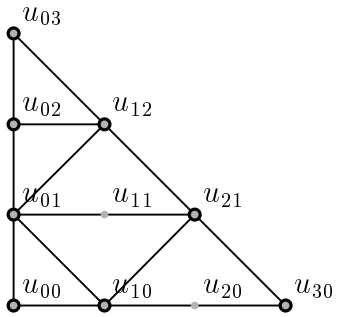
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 0 | 4 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + u_{21} &< 2 \cdot u_{20} + u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21}
\end{aligned}$$

# 1118. Vertex: $(0, 2, 0, 5, 1, 6, 6, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

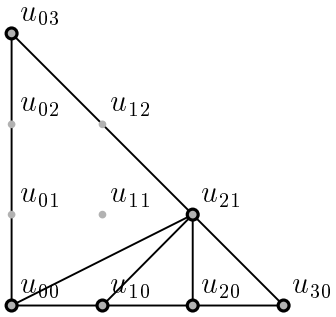
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 4 | 0 | 4 | |
| 0 | 0 | 2 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{30} + 2 \cdot u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21}
\end{aligned}$$

# 1119. Vertex: $(0, 1, 2, 2, 7, 9, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

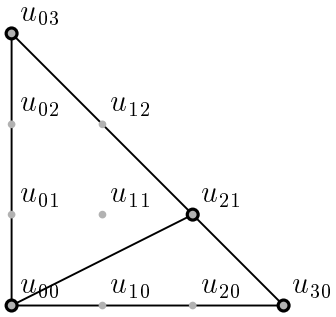
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 3 \cdot u_{21} + u_{03} &< 6 \cdot u_{11} \\
4 \cdot u_{00} + 3 \cdot u_{21} &< 6 \cdot u_{10} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{21} + 3 \cdot u_{03} &< 6 \cdot u_{12} \\
2 \cdot u_{00} + 4 \cdot u_{03} &< 6 \cdot u_{02} \\
4 \cdot u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{01}
\end{aligned}$$

# 1120. Vertex: $(0, 3, 0, 0, 9, 9, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

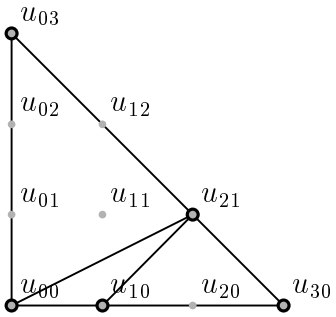
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 3 \cdot u_{21} + u_{03} &< 6 \cdot u_{11} \\
9 \cdot u_{21} &< 6 \cdot u_{30} + 3 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
3 \cdot u_{21} + 3 \cdot u_{03} &< 6 \cdot u_{12} \\
2 \cdot u_{00} + 4 \cdot u_{03} &< 6 \cdot u_{02} \\
4 \cdot u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{01}
\end{aligned}$$

# 1121. Vertex: $(0, 2, 0, 3, 7, 9, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

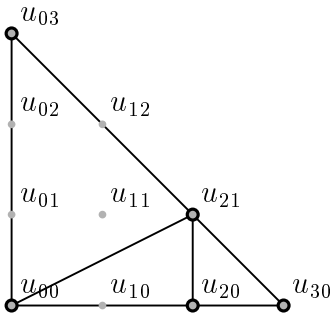
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 3 \cdot u_{21} + u_{03} &< 6 \cdot u_{11} \\
4 \cdot u_{00} + 3 \cdot u_{21} &< 6 \cdot u_{10} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
3 \cdot u_{21} + 3 \cdot u_{03} &< 6 \cdot u_{12} \\
2 \cdot u_{00} + 4 \cdot u_{03} &< 6 \cdot u_{02} \\
4 \cdot u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{01}
\end{aligned}$$

# 1122. Vertex: $(0, 1, 3, 0, 8, 9, 0, 0, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

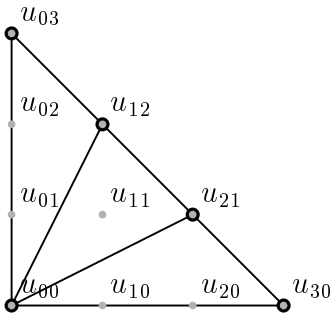
| | | | | |
|---|---|---|---|---|
| 3 | 2 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 3 \cdot u_{21} + u_{03} &< 6 \cdot u_{11} \\
2 \cdot u_{00} + 6 \cdot u_{21} &< 6 \cdot u_{20} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
3 \cdot u_{21} + 3 \cdot u_{03} &< 6 \cdot u_{12} \\
2 \cdot u_{00} + 4 \cdot u_{03} &< 6 \cdot u_{02} \\
4 \cdot u_{00} + 2 \cdot u_{03} &< 6 \cdot u_{01}
\end{aligned}$$

# 1123. Vertex: $(0, 3, 0, 0, 9, 6, 0, 6, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

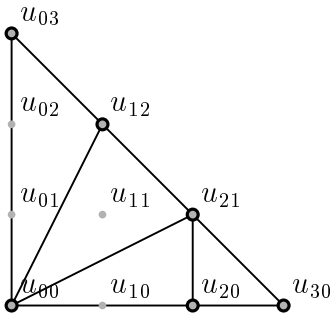
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
6 \cdot u_{21} &< 3 \cdot u_{30} + 3 \cdot u_{12} \\
6 \cdot u_{12} &< 3 \cdot u_{21} + 3 \cdot u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01}
\end{aligned}$$

# 1124. Vertex: $(0, 1, 3, 0, 8, 6, 0, 6, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

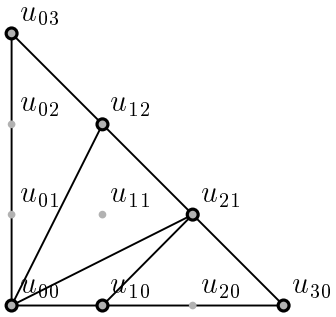
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
u_{00} + 4 \cdot u_{21} &< 3 \cdot u_{20} + 2 \cdot u_{12} \\
6 \cdot u_{12} &< 3 \cdot u_{21} + 3 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02}
\end{aligned}$$

# 1125. Vertex: $(0, 2, 0, 3, 7, 6, 0, 6, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

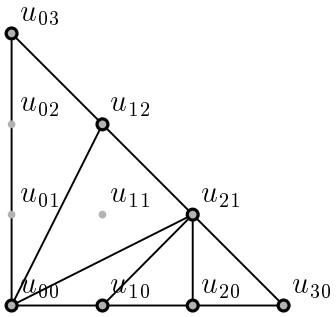
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 3 \cdot u_{10} + u_{12} \\
6 \cdot u_{12} &< 3 \cdot u_{21} + 3 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01}
\end{aligned}$$

# 1126. Vertex: $(0, 1, 2, 2, 7, 6, 0, 6, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

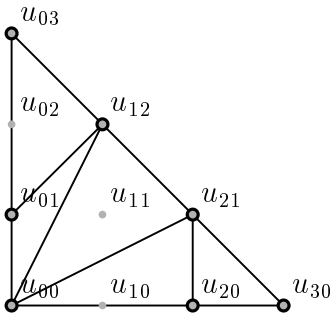
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 3 \cdot u_{10} + u_{12} \\
6 \cdot u_{12} &< 3 \cdot u_{21} + 3 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{00} + u_{03} &< 3 \cdot u_{01} \\
u_{00} + 2 \cdot u_{03} &< 3 \cdot u_{02}
\end{aligned}$$

# 1127. Vertex: $(0, 1, 3, 0, 6, 6, 3, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

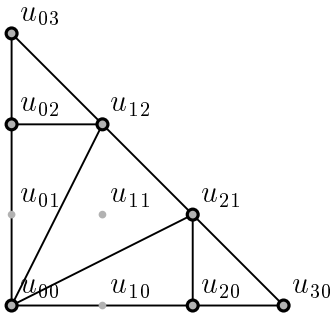
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
u_{00} + 4 \cdot u_{21} &< 3 \cdot u_{20} + 2 \cdot u_{12} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1128. Vertex: $(0, 1, 3, 0, 7, 6, 0, 6, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

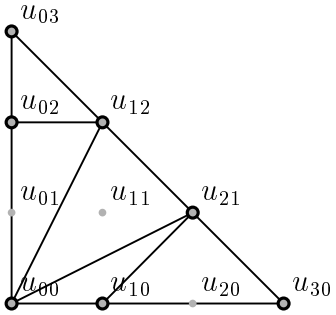
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
u_{00} + 4 \cdot u_{21} &< 3 \cdot u_{20} + 2 \cdot u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + 4 \cdot u_{12} &< 2 \cdot u_{21} + 3 \cdot u_{02}
\end{aligned}$$

# 1129. Vertex: $(0, 2, 0, 3, 6, 6, 0, 6, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

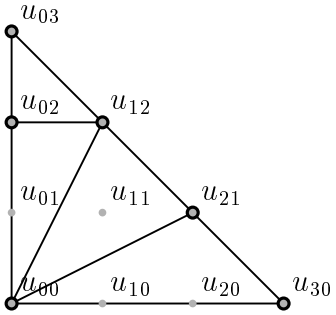
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 3 \cdot u_{10} + u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + 4 \cdot u_{12} &< 2 \cdot u_{21} + 3 \cdot u_{02}
\end{aligned}$$

# 1130. Vertex: $(0, 3, 0, 0, 8, 6, 0, 6, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

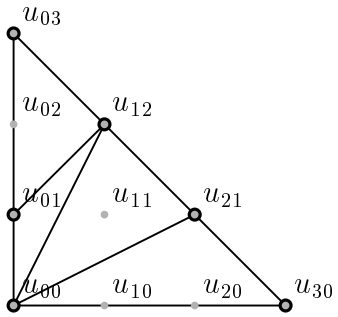
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
6 \cdot u_{21} &< 3 \cdot u_{30} + 3 \cdot u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + 4 \cdot u_{12} &< 2 \cdot u_{21} + 3 \cdot u_{02}
\end{aligned}$$

# 1131. Vertex: $(0, 3, 0, 0, 7, 6, 3, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

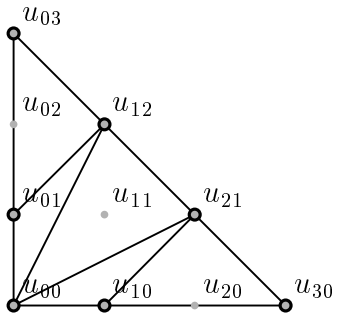
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
6 \cdot u_{21} &< 3 \cdot u_{30} + 3 \cdot u_{12} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1132. Vertex: $(0, 2, 0, 3, 5, 6, 3, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

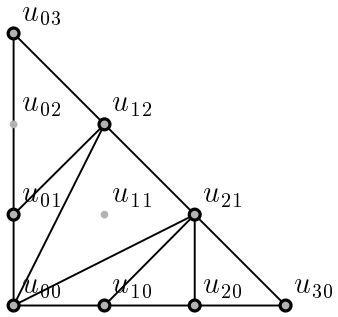
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 3 \cdot u_{10} + u_{12} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1133. Vertex: $(0, 1, 2, 2, 5, 6, 3, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

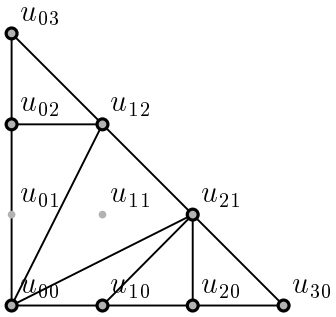
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 3 \cdot u_{10} + u_{12} \\
3 \cdot u_{01} &< 2 \cdot u_{00} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1134. Vertex: $(0, 1, 2, 2, 6, 6, 0, 6, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

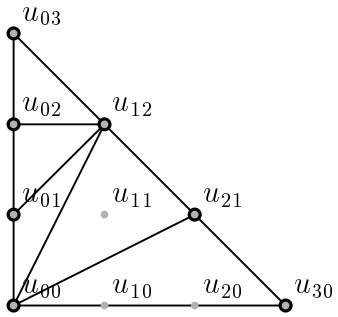
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 3 \cdot u_{10} + u_{12} \\
3 \cdot u_{02} &< u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + 4 \cdot u_{12} &< 2 \cdot u_{21} + 3 \cdot u_{02}
\end{aligned}$$

# 1135. Vertex: $(0, 3, 0, 0, 7, 6, 2, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

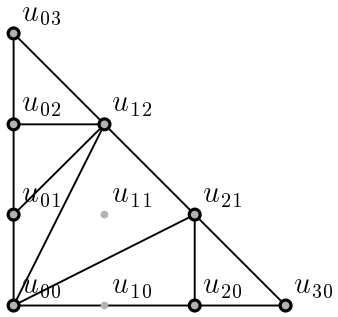
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
6 \cdot u_{21} &< 3 \cdot u_{30} + 3 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1136. Vertex: $(0, 1, 3, 0, 6, 6, 2, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

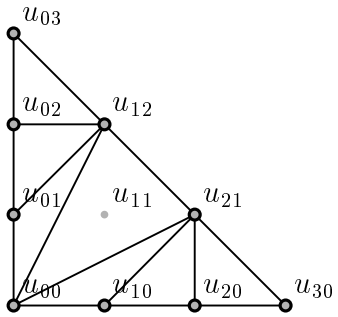
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
u_{00} + 4 \cdot u_{21} &< 3 \cdot u_{20} + 2 \cdot u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1137. Vertex: $(0, 1, 2, 2, 5, 6, 2, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

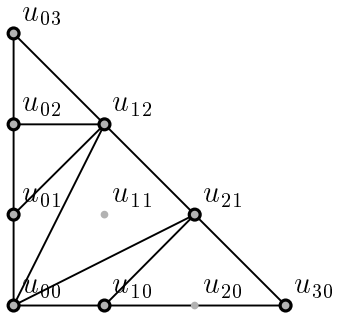
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 3 \cdot u_{10} + u_{12} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1138. Vertex: $(0, 2, 0, 3, 5, 6, 2, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

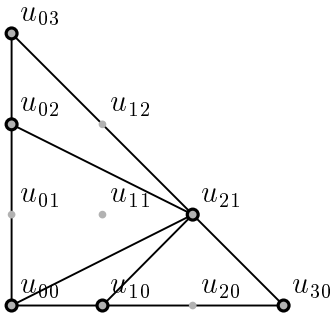
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 4 | | |
| 1 | 0 | 0 | 4 | |
| 0 | 4 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 3 \cdot u_{10} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< u_{21} + 3 \cdot u_{01}
\end{aligned}$$

# 1139. Vertex: $(0, 2, 0, 3, 5, 9, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

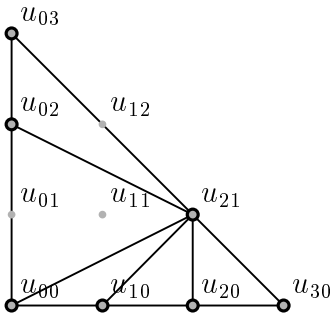
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} + u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{00} + 2 \cdot u_{21} &< 4 \cdot u_{10} + u_{02} \\
6 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01}
\end{aligned}$$

# 1140. Vertex: $(0, 1, 2, 2, 5, 9, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

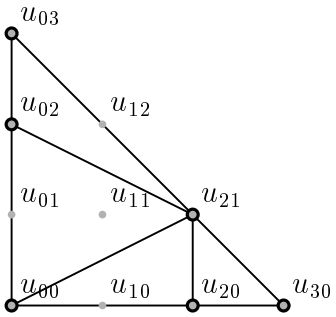
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} + u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{00} + 2 \cdot u_{21} &< 4 \cdot u_{10} + u_{02} \\
6 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01}
\end{aligned}$$

# 1141. Vertex: $(0, 1, 3, 0, 6, 9, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

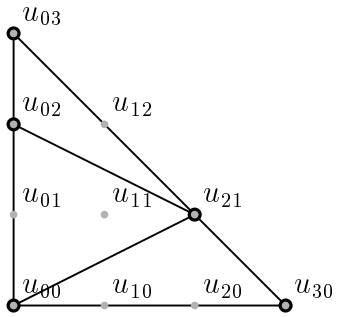
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} + u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + 4 \cdot u_{21} &< 4 \cdot u_{20} + 2 \cdot u_{02} \\
6 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01}
\end{aligned}$$

# 1142. Vertex: $(0, 3, 0, 0, 7, 9, 0, 0, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

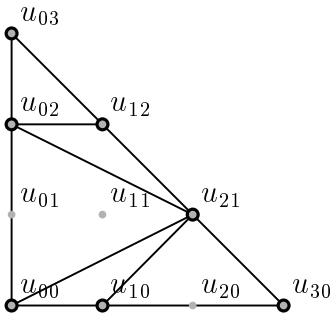
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} + u_{02} &< 4 \cdot u_{11} \\
u_{00} + 6 \cdot u_{21} &< 4 \cdot u_{30} + 3 \cdot u_{02} \\
6 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01}
\end{aligned}$$

# 1143. Vertex: $(0, 2, 0, 3, 5, 8, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

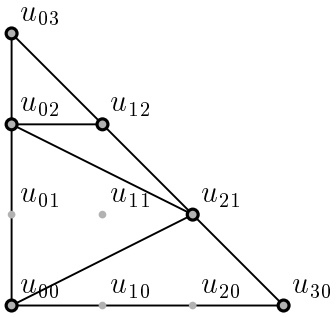
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} + u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{00} + 2 \cdot u_{21} &< 4 \cdot u_{10} + u_{02} \\
2 \cdot u_{21} + 3 \cdot u_{02} &< u_{00} + 4 \cdot u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01}
\end{aligned}$$

# 1144. Vertex: $(0, 3, 0, 0, 7, 8, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

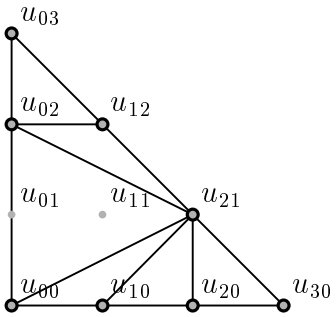
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} + u_{02} &< 4 \cdot u_{11} \\
u_{00} + 6 \cdot u_{21} &< 4 \cdot u_{30} + 3 \cdot u_{02} \\
2 \cdot u_{21} + 3 \cdot u_{02} &< u_{00} + 4 \cdot u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01}
\end{aligned}$$

# 1145. Vertex: $(0, 1, 2, 2, 5, 8, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

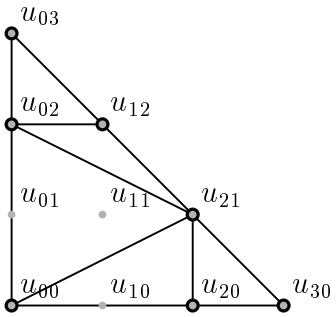
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} + u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{00} + 2 \cdot u_{21} &< 4 \cdot u_{10} + u_{02} \\
2 \cdot u_{21} + 3 \cdot u_{02} &< u_{00} + 4 \cdot u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01}
\end{aligned}$$

# 1146. Vertex: $(0, 1, 3, 0, 6, 8, 0, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

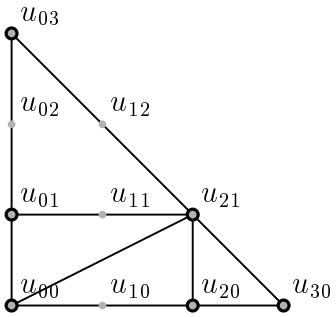
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 3 | 0 | | |
| 1 | 0 | 0 | 6 | |
| 0 | 3 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} + u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + 4 \cdot u_{21} &< 4 \cdot u_{20} + 2 \cdot u_{02} \\
2 \cdot u_{21} + 3 \cdot u_{02} &< u_{00} + 4 \cdot u_{12} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01}
\end{aligned}$$

# 1147. Vertex: $(0, 1, 3, 0, 4, 9, 6, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

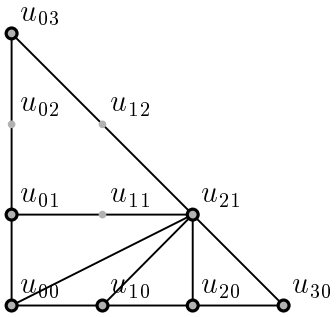
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
6 \cdot u_{01} &< 4 \cdot u_{00} + 2 \cdot u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12}
\end{aligned}$$

# 1148. Vertex: $(0, 1, 2, 2, 3, 9, 6, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

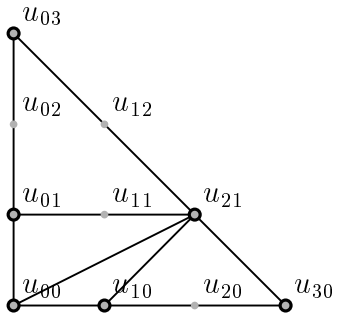
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
6 \cdot u_{01} &< 4 \cdot u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12}
\end{aligned}$$

# 1149. Vertex: $(0, 2, 0, 3, 3, 9, 6, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

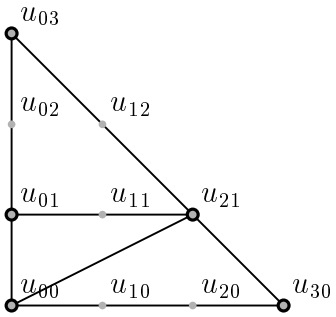
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
6 \cdot u_{01} &< 4 \cdot u_{00} + 2 \cdot u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12}
\end{aligned}$$

# 1150. Vertex: $(0, 3, 0, 0, 5, 9, 6, 0, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{01} + u_{03}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

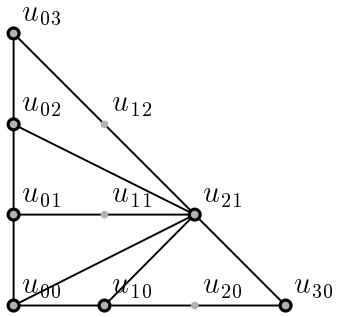
| | | | | |
|---|---|---|---|---|
| 3 | 1 | | | |
| 2 | 0 | 0 | | |
| 1 | 3 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{21} + 3 \cdot u_{01} &< 6 \cdot u_{11} \\
2 \cdot u_{00} + 3 \cdot u_{21} &< 2 \cdot u_{30} + 3 \cdot u_{01} \\
6 \cdot u_{01} &< 4 \cdot u_{00} + 2 \cdot u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{01} + 2 \cdot u_{03} &< 4 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{03} &< 4 \cdot u_{12}
\end{aligned}$$

# 1151. Vertex: $(0, 2, 0, 3, 3, 9, 4, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

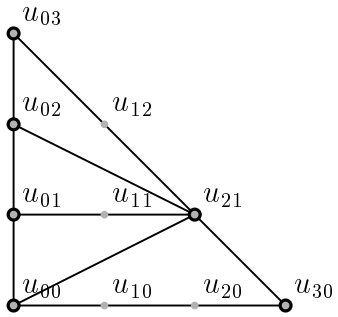
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12}
\end{aligned}$$

# 1152. Vertex: $(0, 3, 0, 0, 5, 9, 4, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

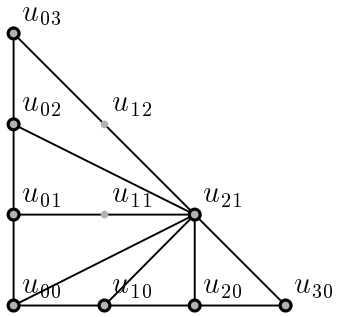
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + 3 \cdot u_{21} &< 2 \cdot u_{30} + 3 \cdot u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{21} + u_{03} &< 2 \cdot u_{12}
\end{aligned}$$

# 1153. Vertex: $(0, 1, 2, 2, 3, 9, 4, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

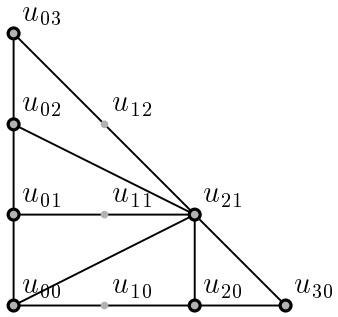
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + u_{03} &< 2 \cdot u_{12}
\end{aligned}$$

# 1154. Vertex: $(0, 1, 3, 0, 4, 9, 4, 0, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

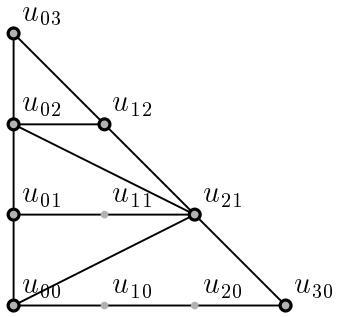
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
4 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{03} &< 2 \cdot u_{12}
\end{aligned}$$

# 1155. Vertex: $(0, 3, 0, 0, 5, 8, 4, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

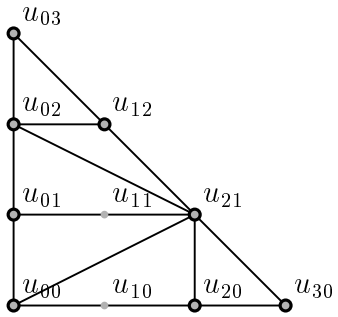
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + 3 \cdot u_{21} &< 2 \cdot u_{30} + 3 \cdot u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 1156. Vertex: $(0, 1, 3, 0, 4, 8, 4, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

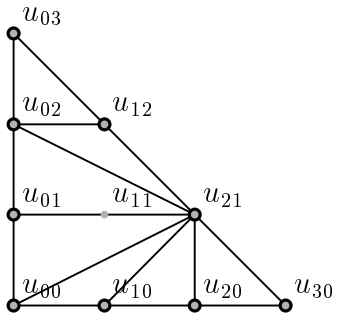
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 1157. Vertex: $(0, 1, 2, 2, 3, 8, 4, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

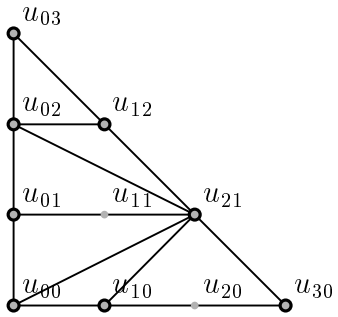
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 1158. Vertex: $(0, 2, 0, 3, 3, 8, 4, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

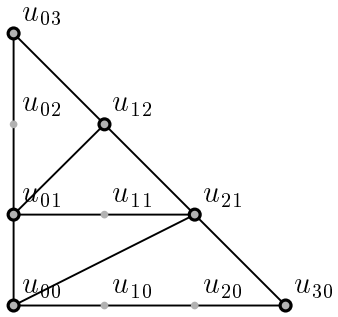
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 2 | 0 | | |
| 1 | 2 | 0 | 6 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
2 \cdot u_{12} &< u_{21} + u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12}
\end{aligned}$$

# 1159. Vertex: $(0, 3, 0, 0, 5, 7, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

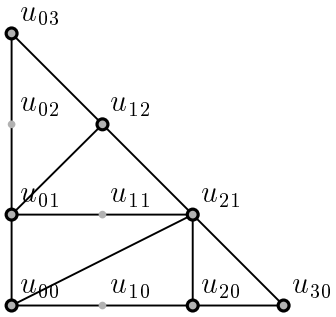
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + 3 \cdot u_{21} &< 2 \cdot u_{30} + 3 \cdot u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02}
\end{aligned}$$

# 1160. Vertex: $(0, 1, 3, 0, 4, 7, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

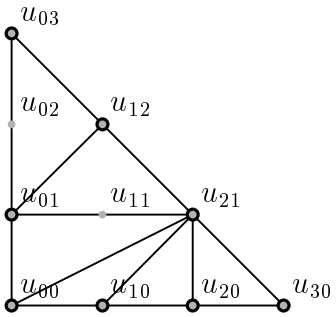
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02}
\end{aligned}$$

# 1161. Vertex: $(0, 1, 2, 2, 3, 7, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

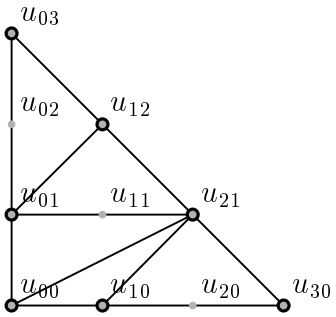
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
u_{01} + u_{03} &< 2 \cdot u_{02}
\end{aligned}$$

# 1162. Vertex: $(0, 2, 0, 3, 3, 7, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

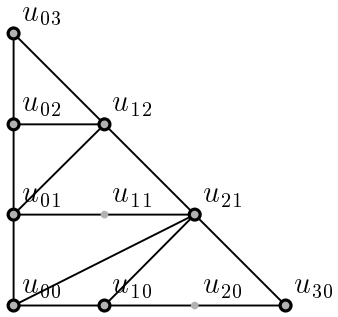
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{03} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
u_{01} + u_{03} &< 2 \cdot u_{02}
\end{aligned}$$

# 1163. Vertex: $(0, 2, 0, 3, 3, 7, 5, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

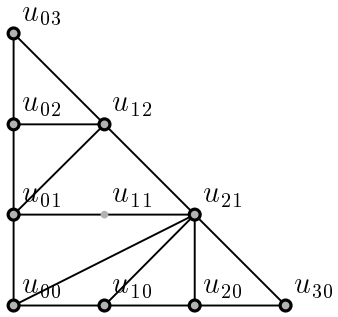
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + u_{10} &< 2 \cdot u_{20} \\
3 \cdot u_{10} &< u_{30} + 2 \cdot u_{00}
\end{aligned}$$

# 1164. Vertex: $(0, 1, 2, 2, 3, 7, 5, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

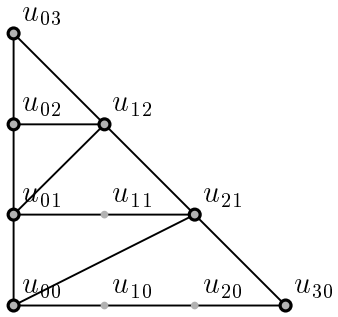
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
2 \cdot u_{20} &< u_{30} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00}
\end{aligned}$$

# 1165. Vertex: $(0, 3, 0, 0, 5, 7, 5, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

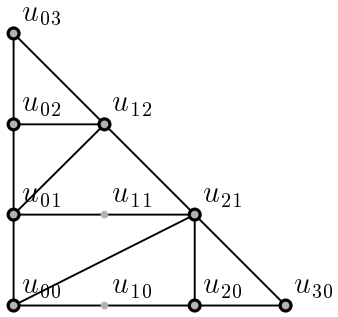
| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + 3 \cdot u_{21} &< 2 \cdot u_{30} + 3 \cdot u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{30} + 2 \cdot u_{00} &< 3 \cdot u_{10} \\
2 \cdot u_{30} + u_{00} &< 3 \cdot u_{20}
\end{aligned}$$

# 1166. Vertex: $(0, 1, 3, 0, 4, 7, 5, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:




The negative of the cycle length is: 0

The generic valuation of $\Delta$ is: $2 \cdot u_{00} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{12}$

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 0 | | |
| 1 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 |
| $c_T(i,j)$ | 0 | 1 | 2 | 3 |

| | | | | |
|---|---|---|---|---|
| 3 | 0 | | | |
| 2 | 0 | 2 | | |
| 1 | 3 | 0 | 5 | |
| 0 | 2 | 0 | 0 | 0 |
| $\eta_T(i,j)$ | 0 | 1 | 2 | 3 |

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{02} &< u_{01} + u_{03} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{20} &< 2 \cdot u_{30} + u_{00}
\end{aligned}$$